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* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

| | | |
|---|---|---|
| NEWS 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS 2 | JAN 02 | STN pricing information for 2008 now available |
| NEWS 3 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances |
| NEWS 4 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats |
| NEWS 5 | JAN 28 | MARPAT searching enhanced |
| NEWS 6 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication |
| NEWS 7 | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment |
| NEWS 8 | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements |
| NEWS 9 | FEB 08 | STN Express, Version 8.3, now available |
| NEWS 10 | FEB 20 | PCI now available as a replacement to DPCI |
| NEWS 11 | FEB 25 | IFIREF reloaded with enhancements |
| NEWS 12 | FEB 25 | IMSPRODUCT reloaded with enhancements |
| NEWS 13 | FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |
| NEWS 14 | MAR 31 | IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats |
| NEWS 15 | MAR 31 | CAS REGISTRY enhanced with additional experimental spectra |
| NEWS 16 | MAR 31 | CA/CAplus and CASREACT patent number format for U.S. applications updated |
| NEWS 17 | MAR 31 | LPCI now available as a replacement to LDPCI |
| NEWS 18 | MAR 31 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements |
| NEWS 19 | APR 04 | STN AnaVist, Version 1, to be discontinued |
| NEWS 20 | APR 15 | WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats |
| NEWS 21 | APR 28 | EMBASE Controlled Term thesaurus enhanced |
| NEWS 22 | APR 28 | IMSRESEARCH reloaded with enhancements |
| NEWS 23 | MAY 30 | INPAFAMDB now available on STN for patent family searching |
| NEWS 24 | MAY 30 | DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option |
| NEWS 25 | JUN 06 | EPFULL enhanced with 260,000 English abstracts |
| NEWS 26 | JUN 06 | KOREAPAT updated with 41,000 documents |
| NEWS 27 | JUN 13 | USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications |
| NEWS 28 | JUN 19 | CAS REGISTRY includes selected substances from web-based collections |
| NEWS 29 | JUN 25 | CA/CAplus and USPAT databases updated with IPC reclassification data |
| NEWS 30 | JUN 30 | AEROSPACE enhanced with more than 1 million U.S. |

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                  patent records
 NEWS 31  JUN 30  EMBASE, EMBAL, and LEMBASE updated with additional
                  options to display authors and affiliated
                  organizations
 NEWS 32  JUN 30  STN on the Web enhanced with new STN AnaVist
                  Assistant and BLAST plug-in
 NEWS 33  JUN 30  STN AnaVist enhanced with database content from EPFULL

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:29:06 ON 14 JUL 2008

=> file registry
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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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STRUCTURE FILE UPDATES:   13 JUL 2008  HIGHEST RN 1033821-28-1
DICTIONARY FILE UPDATES:  13 JUL 2008  HIGHEST RN 1033821-28-1

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e fosphenytoin/CN
E1            1     FOSOR/CN
```

```
E2            1     FOSPAN/CN
E3            1 --> FOSPHENYTOIN/CN
E4            1     FOSPHENYTOIN SODIUM/CN
E5            1     FOSPINOL/CN
E6            1     FOSPIRAT/CN
E7            1     FOSPIRATE/CN
E8            1     FOSPIRATE-ETHYL/CN
E9            1     FOSPIRATE-METHYL/CN
E10           1     FOSPOLIOL/CN
E11           1     FOSPOLIOL 2/CN
E12           1     FOSPOLIOL II/CN

=> e cerebyx/cn
E1            1     CEREBROSTEROL/CN
E2            1     CEREBRUM, DRIED/CN
E3            1 --> CEREBYX/CN
E4            1     CEREC/CN
E5            1     CEREC 3/CN
E6            1     CEREC II VITABLOCK MARK II/CN
E7            1     CEREC MARK II/CN
E8            1     CEREC VITA DUOCEMENT/CN
E9            1     CEREC VITABLOCS MARK II/CN
E10           1     CERECALASE/CN
E11           1     CERECIN (ANTIBIOTIC)/CN
E12           1     CERECLOR/CN

=> e prodilantin/cn
E1            1     PRODIGY PHENYL 3/CN
E2            1     PRODIGY Z 250-3M/CN
E3            0 --> PRODILANTIN/CN
E4            1     PRODILIDINE/CN
E5            1     PRODILIDINE HYDROCHLORIDE/CN
E6            1     PRODIMINE/CN
E7            1     PRODINE/CN
E8            1     PRODIOL/CN
E9            1     PRODIPEPTIDYL-PEPTIDASE I (HUMAN REDUCED)/CN
E10           1     PRODIPINE/CN
E11           1     PRODIPINE HYDROCHLORIDE/CN
E12           1     PRODISTENIDIN B 2/CN

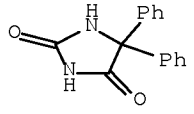
=> e 5,5-diphenylhydantoin/cn
E1            1     5,5-DIPHENYLGLYCOCYAMIDINE/CN
E2            1     5,5-DIPHENYLHEXAHYDROAZEPIN-2-ONE/CN
E3            1 --> 5,5-DIPHENYLHYDANTOIN/CN
E4            1     5,5-DIPHENYLHYDANTOIN COMPD. WITH 1-(4-BROMOPHENYL)-4-DIMETH
                    YLAMINO-2,3-DIMETHYL-3-PYRAZOLIN-5-ONE (1:1)/CN
E5            1     5,5-DIPHENYLHYDANTOIN SODIUM/CN
E6            1     5,5-DIPHENYLHYDANTOIN-3-(Ω-VALERIC ACID)/CN
E7            1     5,5-DIPHENYLHYDANTOIN-3-BUTYRIC ACID/CN
E8            1     5,5-DIPHENYLIMIDAZOLIDINE-4-ONE-2-THIONE/CN
E9            1     5,5-DIPHENYLOCTAFLUOROGERMANTHRENE/CN
E10           1     5,5-DIPHENYLPENTANAL/CN
E11           1     5,5-DIPHENYLPENTANOIC ACID/CN
E12           1     5,5-DIPHENYLPENTYLAMINE/CN

=> d e3
NO L# DEFINED

=> s e3
L1            1 "5,5-DIPHENYLHYDANTOIN"/CN
```

=> d l1

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 57-41-0 REGISTRY
ED Entered STN: 16 Nov 1984
CN 2,4-Imidazolidinedione, 5,5-diphenyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Hydantoin, 5,5-diphenyl- (8CI)
OTHER NAMES:
CN 5,5-Diphenyl-1H-imidazolidine-2,4-dione
CN 5,5-Diphenyl-2,4-imidazolidinedione
CN 5,5-Diphenylhydantoin
CN Aleviatin
CN Denyl
CN Di-Hydan
CN Di-Lan
CN Dihycon
CN Dilabid
CN Dintoina
CN Diphantoin
CN Diphedan
CN Diphenat
CN Diphenylan
CN Diphenylhydantoin
CN DPH
CN Ekko
CN Hidantal
CN Hydantol
CN Lehydan
CN Lepitoin
CN NSC 8722
CN Phenytoin
CN Phenytoine
CN Sodanton
CN Zentropil
DR 125-59-7
MF C15 H12 N2 O2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, PHAR, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, USPATOLD, VETU
(*File contains numerically searchable property data)
Other Sources: EINECS**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

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            7963 REFERENCES IN FILE CA (1907 TO DATE)
             138 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
            7973 REFERENCES IN FILE CAPLUS (1907 TO DATE)
              10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=> s e5
L2            1 "5,5-DIPHENYLHYDANTOIN SODIUM"/CN

=> d l2

L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   630-93-3  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   2,4-Imidazolidinedione, 5,5-diphenyl-, sodium salt (1:1)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   2,4-Imidazolidinedione, 5,5-diphenyl-, monosodium salt (9CI)
CN   Hydantoin, 5,5-diphenyl-, sodium salt (8CI)
OTHER NAMES:
CN   5,5-Diphenylhydantoin sodium
CN   Aleviatin sodium
CN   Antisacer
CN   Danten
CN   Difenin
CN   Difhydan
CN   Dilantin
CN   Diphantoine
CN   Diphenin
CN   Diphenine
CN   Diphenylan sodium
CN   Diphenylhydantoin sodium
CN   Ditoin
CN   Enkefal
CN   Epanutin
CN   Epelin
CN   Epilan D
CN   Epsolin
CN   Eptoin
CN   Fenitoin sodium
CN   Hydantin
CN   Hydantoinal
CN   M-toin
CN   Minetoin
CN   Phenyloin
CN   Phenytoin sodium
CN   Phenytoin soluble
CN   Prompt
CN   Sodium 5,5-diphenyl-2,4-imidazolidinedione
CN   Sodium 5,5-diphenylhydantoin
CN   Sodium diphenylhydantoin
CN   Sodium diphenylhydantoinate
CN   Sodium phenytoin
CN   Solantyl
CN   Soluble Phenytoin
CN   Tacosal
DR   8017-52-5, 143-75-9, 1421-15-4
MF   C15 H12 N2 O2 . Na
CI   COM
LC   STN Files:   ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO,
       CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM,
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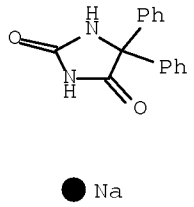
DDFU, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB,
IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, PHAR, PROMT, PS, RTECS*,
SPECINFO, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (57-41-0)







**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

2218 REFERENCES IN FILE CA (1907 TO DATE)
14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2221 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e fosphenytoin/cn
E1            1     FOSOR/CN
E2            1     FOSPAN/CN
E3            1 --> FOSPHENYTOIN/CN
E4            1     FOSPHENYTOIN SODIUM/CN
E5            1     FOSPINOL/CN
E6            1     FOSPIRAT/CN
E7            1     FOSPIRATE/CN
E8            1     FOSPIRATE-ETHYL/CN
E9            1     FOSPIRATE-METHYL/CN
E10           1     FOSPOLIOL/CN
E11           1     FOSPOLIOL 2/CN
E12           1     FOSPOLIOL II/CN

=> s e3
L3            1 FOSPHENYTOIN/CN

=> d l3

L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   93390-81-9  REGISTRY
ED   Entered STN:  18 Dec 1984
CN   2,4-Imidazolidinedione, 5,5-diphenyl-3-[(phosphonooxy)methyl]-  (CA INDEX
     NAME)
OTHER NAMES:
CN   (3-Phosphoryloxymethyl)phenytoin
CN   Cerebyx
CN   Fosphenytoin
MF   C16 H15 N2 O6 P
CI   COM
LC   STN Files:   ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BIOSIS, CA, CAPLUS,
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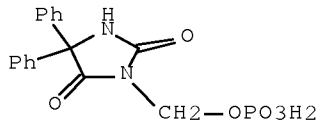
CASREACT, CBNB, CHEMCATS, CIN, DDFU, DRUGU, HSDB*, IMSCOSEARCH,
IMSDRUGNEWS, IMSPATENTS, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK*,
PHAR, PROMT, PROUSDDR, RTECS*, SYNTHLINE, TOXCENTER, USAN, USPAT2,
USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

139 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
140 REFERENCES IN FILE CAPLUS (1907 TO DATE)

```
=> e sodium fosphenytoin/cn
E1            1     SODIUM FORMYLCYCLOPENTADIENIDE/CN
E2            2     SODIUM FOSFOMYCIN/CN
E3            0 --> SODIUM FOSPHENYTOIN/CN
E4            1     SODIUM FRUCTOHEPTONATE/CN
E5            1     SODIUM FRUCTOSE 1,6-DIPHOSPHATE/CN
E6            1     SODIUM FRUCTOSE BISULFITE/CN
E7            1     SODIUM FUCIDATE/CN
E8            1     SODIUM FULLERENE (NA2C60)/CN
E9            1     SODIUM FULLERENE (NA3C60)/CN
E10           1     SODIUM FULLERENE (NAC60)/CN
E11           1     SODIUM FULLERIDE (NA0-6C60)/CN
E12           1     SODIUM FULLERIDE (NA0.5C60)/CN

=> e (fosphenytoin sodium)/cn
E1            1     (FORMYLOXY)TRIHEXYLSILANE/CN
E2            1     (FORMYLPHENYL)BORON OXIDE, THIOSEMICARBAZONE/CN
E3            0 --> (FOSPHENYTOIN SODIUM)/CN
E4            1     (FULLERENE-C60)(BIS(TRIPHENYLPHOSPHINE)PALLADIUM)/CN
E5            1     (FUMARATO)BIS(THIOUREA)ZINC/CN
E6            1     (FUMARODINITRILE)(PHTHALOCYANINATO)RUTHENIUM/CN
E7            1     (FUMARODINITRILE)(PHTHALOCYANINATO)RUTHENIUM HOMOPOLYMER/CN
E8            1     (FUMARONITRILE)BIS(TRI-O-TOLYL PHOSPHITE)NICKEL/CN
E9            1     (FUMARONITRILE)BIS(TRIPHENYLARSINE)PALLADIUM/CN
E10           1     (FUMARONITRILE)BIS(TRIPHENYLARSINE)PLATINUM/CN
E11           1     (FURAN-2-YL)(2-METHYL-7-(2,4,6-TRIMETHYLPHENYL)-4,5,6,7-TETR
                    AHYDRO-2H-PYRAZOLO(3,4-B)PYRIDIN-3-YL)METHANOL/CN
E12           1     (FURAN-2-YL)(3-HYDROXYMETHYLPIPERIDIN-1-YL)METHANONE/CN

=> d l1 1 IDE

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN   57-41-0  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   2,4-Imidazolidinedione, 5,5-diphenyl-  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Hydantoin, 5,5-diphenyl- (8CI)
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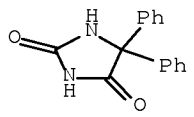
OTHER NAMES:
CN  5,5-Diphenyl-1H-imidazolidine-2,4-dione
CN  5,5-Diphenyl-2,4-imidazolidinedione
CN  5,5-Diphenylhydantoin
CN  Aleviatin
CN  Denyl
CN  Di-Hydan
CN  Di-Lan
CN  Dihycon
CN  Dilabid
CN  Dintoina
CN  Diphantoin
CN  Diphedan
CN  Diphenat
CN  Diphenylan
CN  Diphenylhydantoin
CN  DPH
CN  Ekko
CN  Hidantal
CN  Hydantol
CN  Lehydan
CN  Lepitoin
CN  NSC 8722
CN  Phenytoin
CN  Phenytoine
CN  Sodanton
CN  Zentropil
DR  125-59-7
MF  C15 H12 N2 O2
CI  COM
LC  STN Files:  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
    BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
    CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IFICDB,
    IFIPAT, IFIUDB, IMSCOSEARCH, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE,
    MRCK*, MSDS-OHS, PHAR, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE,
    TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, USPATOLD, VETU
      (*File contains numerically searchable property data)
    Other Sources:  EINECS**, WHO
      (**Enter CHEMLIST File for up-to-date regulatory information)




**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

          7963 REFERENCES IN FILE CA (1907 TO DATE)
           138 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
          7973 REFERENCES IN FILE CAPLUS (1907 TO DATE)
            10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
COST IN U.S. DOLLARS  SINCE FILE ENTRY  TOTAL SESSION

FULL ESTIMATED COST 35.87 36.08

FILE 'CAPLUS' ENTERED AT 11:45:37 ON 14 JUL 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 14 Jul 2008 VOL 149 ISS 3
FILE LAST UPDATED: 13 Jul 2008 (20080713/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/legal/infopolicy.html

=> s l1 l2 l3
MISSING OPERATOR L1 L2
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l1
L4 7973 L1

=> s l2
L5 2221 L2

=> s l1 and l2 and l3
7973 L1
2221 L2
140 L3
L6 11 L1 AND L2 AND L3

=> d scan ti hit

L6 11 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
TI Composition comprising a tramadol material and an anticonvulsant drug
IT 630-93-3, Phenytoin sodium
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(diphenylan sodium; synergistic combination of tramadol and an anticonvulsant)
IT 50-06-6, Phenobarbital, biological studies 50-11-3, Metharbital
50-12-4, Mephenytoin 57-41-0, Phenytoin 59-66-5, Acetazolamide
61-56-3, Sulthiame 63-98-9, Phenacemide 77-41-8, Methsuximide
77-67-8, Ethosuximide 86-34-0, Phensuximide 86-35-1, Ethotoin
99-66-1, Valproic acid 115-38-8, Mephobarbital 115-67-3,
Paramethadione 125-33-7, Primidone 127-48-0, Trimethadione 298-46-4,

Carbamazepine 1069-66-5, Valproate sodium 1622-61-3, Clonazepam 4350-09-8, L-5-Hydroxytryptophan 7487-88-9, Magnesium sulfate, biological studies 12794-10-4, Benzodiazepine 22316-47-8, Clobazam 62666-20-0, Progabide 76584-70-8, Divalproex sodium 76824-35-6, Famotidine 80456-81-1 93390-81-9, Fosphenytoin 123134-25-8 123154-38-1 144830-14-8 144830-15-9 147441-56-3 147513-51-7 147513-52-8 148553-50-8, Pregabalin
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synergistic combination of tramadol and an anticonvulsant)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 11 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
TI Novel drug delivery system
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Flesinoxan 98319-26-7, Finasteride 98383-18-7, Ecomustine 98569-62-1, Mallotochromene 98631-95-9, Sobuzoxane 99009-20-8, Pyrazoloacridine 99011-02-6, Imiquimod 99107-52-5, Bunaprolast 99149-95-8, Saruplase 99156-66-8, Barmastine 99248-33-6, Seglitide Acetate 99258-56-7, Oxamisole 99283-10-0, Molgramostim 99287-30-6, Egualen 99291-25-5, Levodropropizine 99294-94-7, Teriparatide Acetate 99592-32-2, Sertaconazole 99614-02-5, Ondansetron 99665-00-6, Flomoxef 99705-65-4, Naxagolide Hydrochloride 99759-19-0, Tiqueside 99821-44-0, Nasaruplase 100188-33-8, Piridronate Sodium 100427-26-7, Lercanidipine 100490-36-6, Tosufloxacin 100643-96-7, Indolidan 100981-43-9, Ebrotidine 100986-85-4, Levofloxacin 101001-34-7, Pamicogrel 101197-99-3, Acitemate 101246-66-6, Phenserine 101246-68-8, Eptastigmine 101363-10-4, Rufloxacin 101477-55-8, Lomerizine 101526-83-4, Sematilide 101530-10-3, Lanoconazole 102394-31-0, Otenzepad 102396-24-7, Jasplakinolide 102426-96-0, Paldimycin 102625-70-7, Pantoprazole 102669-89-6, Saterinone 102670-59-7, Batanopride Hydrochloride 102676-47-1, Fadrozole 102767-28-2, Levetiracetam \102822-56-0, Mannostatin A 102916-21-2, Tigemonam Dicholine 103060-53-3, Daptomycin 103222-11-3, Vapreotide 103255-66-9, Pazinaclone 103336-05-6, Ditekiren 103337-74-2, Letrazuril 103379-03-9, Monatepil Maleate 103475-41-8, Tepoxalin 103486-79-9, Belfosdil 103577-45-3, Lansoprazole 103614-76-2, Halichondrin B 103628-46-2, Sumatriptan 103628-48-4, Sumatriptan succinate 103745-39-7, Fasudil 103775-10-6, Moexipril 103878-84-8, Lazabemide 103890-78-4, Lacidipine 103909-75-7, 22-Oxacalcitriol 104054-27-5, Atipamezole 104153-37-9, Rilopirox 104227-87-4, Famciclovir 104340-86-5, Leminoprazole 104344-23-2, Bisoprolol fumarate 104383-17-7, Sabeluzole 104393-00-2, Pirazmonam Sodium 104454-71-9, Ipenoxazone 104456-95-3, Cisconazole 104493-13-2, Adecypenol 104595-79-1, Anaritide Acetate 104719-71-3, Lorcinadol 104775-36-2, Ecabapide 104987-11-3, Tacrolimus 105102-18-9, Tibenelast Sodium 105102-22-5, Mometasone 105118-12-5, Piroxantrone Hydrochloride 105149-04-0, Osaterone 105182-45-4, Fluparoxan 105250-86-0, Ebiratide 105431-72-9, Linopirdine 105462-24-6, Risedronic acid 105567-83-7, Berefrine 105613-48-7, Exametazime 105615-58-5, Oxaunomycin 105687-93-2, Sumarotene 105705-89-3, Vinburnine citrate 105784-61-0, Temafloxacin Hydrochloride 105806-65-3, Efegatran 105851-17-0, Fludeoxyglucose F 18 106243-16-7, Thioperamide 106266-06-2, Risperdal 106282-98-8, Somalapor 106400-81-1, Lometrexol 106463-17-6, Tamsulosin Hydrochloride 106498-99-1, Vintoperol 106516-24-9, Sertindole 106560-14-9, Faropenem 106685-40-9, Adapalene 106730-54-5, Olprinone 106861-44-3, Mivacurium chloride 106941-25-7, Adefovir 107000-34-0, Zanoterone 107167-31-7, Lactivicin 107361-33-1, Enazadrem 107407-62-5, Nelezaprine Maleate 107429-63-0, Lintopride 107703-78-6, Glemanserin 107724-20-9, Epoxymexrenone 107753-78-6, Zafirlukast 107793-72-6, Ioxilan 107868-30-4, Exemestane 107902-67-0, Tazofelone 108310-20-9, Pirodomast 108609-34-3, Lixazinone Sulfate 108612-45-9, Mizolastine 108674-87-9, Sergolexole Maleate 108700-03-4, Teludipine Hydrochloride 108736-35-2, Lanreotide 108778-82-1, Beractant 108852-90-0, Nemorubicin 108945-35-3, Taprostene 109214-55-3, Libenzapril 109229-58-5, Englitazone 109543-76-2, Romazarit 109636-76-2, Prinomide Tromethamine 109889-09-0, Granisetron 110042-95-0, Acemannan 110101-66-1, Tirilazad 110140-89-1, Ridogrel 110311-27-8, Sulofenur 110314-48-2, Adozelesin 110347-85-8, Selfotel 110588-56-2, Noberastine 110588-57-3, Saperconazole 110623-33-1, Suritozole 110690-43-2, Emitefur 110703-94-1, Zopolrestat 110845-89-1, Remiprostol 110871-86-8, Sparfloxacin 110942-02-4, Aldesleukin 111011-63-3, Efonidipine 111025-46-8, Pioglitazone 111073-18-8, Nemazoline Hydrochloride 111149-90-7, Lodelaben 111212-85-2, Ersofermin 111223-26-8, Ceronapril 111406-87-2, Zileuton

111490-36-9, Zeniplatin 111523-41-2, Enloplatin 111672-14-1, Rocastine Hydrochloride 111686-79-4, Remacemide Hydrochloride 111753-73-2, Satigrel 111786-07-3, Prinoxodan 111841-85-1, Abecarnil 111902-57-9, Temocapril 111974-60-8, Ritolukast 111974-69-7, Quetiapine 112018-00-5, Tebufelone 112018-01-6, Bemoradan 112192-04-8, Roxindole 112243-58-0, Gevotroline Hydrochloride 112344-52-2, Flobufen 112515-43-2, Topsentin 112522-64-2, Acetyldinaline 112573-73-6, Ecadotril 112733-06-9, Zenarestat 112809-51-5, Letrozole
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(novel drug delivery system)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 11 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN
TI Novel dosage form
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Prochlorperazine 58-39-9, Perphenazine 58-54-8, Ethacrynic acid 58-55-9, Theophylline, biological studies 58-71-9, Cephalothin Sodium 58-86-6, Xylose, biological studies 58-93-5, Hydrochlorothiazide 58-94-6, Chlorothiazide 59-05-2, Methotrexate 59-30-3, Folic acid, biological studies 59-33-6, Pyrilamine maleate 59-52-9, Dimercaprol 59-63-2, Isocarboxazid 59-67-6, Niacin, biological studies 59-87-0, Nitrofurazone 59-92-7, Levodopa, biological studies 59-97-2, Tolazoline hydrochloride 60-13-9, Amphetamine Sulfate 60-18-4, Tyrosine, biological studies 60-23-1, Cysteamine 60-29-7, Ether, biological studies 60-45-7, Fenimide 60-54-8, Tetracycline 60-56-0, Methimazole 60-80-0, Antipyrine 60-99-1, Methotrimeprazine 61-25-6, Papaverine Hydrochloride 61-56-3, Sulthiame 61-57-4, Niridazole 61-68-7, Mefenamic acid 61-73-4, Methylene Blue 61-75-6, Bretylium Tosylate 61-76-7, Phenylephrine Hydrochloride 61-90-5, Leucine, biological studies 62-51-1, Methacholine Chloride 62-68-0, Proadifen Hydrochloride 62-90-8, Nandrolone Phenpropionate 63-05-8, Androstenedione 63-12-7, Benzquinamide 63-39-8, Uridine triphosphate 63-45-6, Primaquine Phosphate 63-68-3, Methionine, biological studies 63-89-8, Colfosceril Palmitate 63-91-2, Phenylalanine, biological studies 63-92-3, Phenoxybenzamine Hydrochloride 63-98-9, Phenacemide 64-31-3, Morphine Sulfate 64-43-7, Amobarbital Sodium 64-55-1, Mebutamate 64-77-7, Tolbutamide 64-86-8, Colchicine 65-28-1, Phentolamine mesylate 65-29-2, Gallamine Triethiodide 65-45-2, Salicylamide 66-75-1, Uracil mustard 66-76-2, DicumaroL 66-81-9, Cycloheximide 67-20-9, Nitrofurantoin 67-43-6, Pentetic acid 67-45-8, Furazolidone 67-63-0, Isopropyl Alcohol, biological studies 67-68-5, Dimethyl Sulfoxide, biological studies 67-73-2, Fluocinolone Acetonide 67-92-5, Dicyclomine Hydrochloride 67-95-8, Quingestrone 67-96-9, Dihydrotachysterol 68-22-4, Norethindrone 68-23-5, Norethynodrel 68-35-9, Sulfadiazine 68-41-7, Cycloserine 68-89-3, Dipyrone 68-91-7, Trimethaphan camsylate 69-44-3, Amodiaquine Hydrochloride 69-53-4, Ampicillin 69-57-8, Penicillin G Sodium 69-65-8, Mannitol 69-72-7, Salicylic acid, biological studies 69-74-9, Cytarabine Hydrochloride 70-00-8, Trifluridine 70-10-0, Ticlatone 70-18-8D, Glutathione, inhibitors, biological studies 71-00-1, Histidine, biological studies 71-27-2, Succinylcholine Chloride 71-58-9, Medroxyprogesterone Acetate 71-63-6, Digitoxin 71-68-1, Hydromorphone Hydrochloride 71-73-8, Thiopental sodium 71-81-8, Isopropamide Iodide 72-18-4, Valine, biological studies 72-19-5, Threonine, biological studies 72-33-3, Mestranol 72-44-6, Methaqualone 73-09-6, Etozolin 73-22-3, Tryptophan, biological studies 73-32-5, Isoleucine, biological studies 73-48-3, Bendroflumethiazide 74-79-3, Arginine, biological studies 75-00-3, Ethyl Chloride 75-19-4, Cyclopropane 76-38-0, Methoxyflurane 76-42-6, Oxycodone 76-43-7, Fluoxymesterone 76-57-3, Codeine 76-73-3, Secobarbital 76-74-4, Pentobarbital 76-90-4, Mepenzolate Bromide 77-21-4, Glutethimide 77-26-9, Butalbital 77-27-0, Thiamylal 77-36-1, Chlorthalidone 77-41-8, Methsuximide 77-67-8, Ethosuximide 77-86-1, Trometamol 77-92-9, biological studies 78-11-5, Pentaerythritol Tetranitrate 78-44-4, Carisoprodol 79-09-4, Propionic acid, biological studies 79-10-7D, Acrylic acid, polymers 79-17-4, Pimagedine 79-41-4D, Methacrylic acid, copolymers 79-57-2, Oxytetracycline 79-64-1, Dimethisterone 80-08-0, Dapsone 80-50-2, Anisotropine Methylbromide 81-04-9, 1,5-Naphthalenedisulfonic acid 81-23-2, Dehydrocholic acid 81-54-9, Purpurin 82-92-8, Cyclizine 83-43-2, Methylprednisolone 83-73-8, Iodoquinol 83-74-9, Ibogaine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(novel dosage form containing modified-release and immediate-release active ingredients)

IT 520-85-4, Medroxyprogesterone 521-18-6, Dihydrotestosterone 522-48-5,

Tetrahydrozoline hydrochloride 523-87-5, Dimenhydrinate 524-83-4, Ethybenztropine 525-26-8, Cloperidone Hydrochloride 527-75-3, Berythromycin 528-43-8, Magnolol 528-96-1, Benzoylpas Calcium 530-08-5, Isoetharine 530-78-9, Flufenamic acid 532-03-6, Methocarbamol 536-33-4, Ethionamide 536-59-4, Perillyl alcohol 536-93-6, Eucatropine Hydrochloride 538-23-8, Tricaprylin 541-15-1, Levocarnitine 541-79-7, Carbocloral 543-82-8, Octodrine 545-80-2, Poldine Methylsulfate 548-04-9, Hypericin 548-57-2, Lucanthone Hydrochloride 548-62-9, Gentian Violet 548-68-5, Thiphenamil hydrochloride 550-70-9, Triprolidine hydrochloride 550-83-4, Propoxycaine hydrochloride 550-99-2, Naphazoline Hydrochloride 551-11-1, Dinoprost 551-48-4, Guanoclor Sulfate 552-94-3, Salsalate 554-57-4, Methazolamide 554-92-7, Trimethobenzamide hydrochloride 555-30-6, Methyldopa 555-43-1, Tristearin 555-44-2, Tripalmitin 555-65-7, Brocresine 555-84-0, Nifuradene 557-08-4, Zinc Undecylenate 566-48-3, Formestane 569-57-3, Chlorotrianisene 578-95-0D, Acridone, imidazole derivs. 579-56-6, Isoxsuprine Hydrochloride 581-88-4, Debrisoquin Sulfate 585-86-4, Lactitol 586-06-1D, Metaproterenol, Polisterex-coated 587-61-1, Propyliodone 590-63-6, Bethanechol Chloride 595-33-5, Megestrol Acetate 596-51-0, Glycopyrrolate 599-79-1, Sulfasalazine 604-75-1, Oxazepam 606-05-3, Pyrabrom 609-78-9, Cycloguanil Pamoate 614-39-1, Procainamide Hydrochloride 630-56-8, Hydroxyprogesterone Caproate 630-93-3, Dilantin 632-00-8, Sulfasomizole 632-99-5, Fuchsin, Basic 635-41-6, Trimetozine 636-54-4, Clopamide 637-07-0, Clofibrate 637-58-1, Pramoxine Hydrochloride 638-23-3, Carbocysteine 638-94-8, Desonide 645-43-2, Guanethidine Monosulfate 651-06-9, Sulfameter 652-67-5, Isosorbide 653-03-2, Butaperazine 655-05-0, Thozalinone 655-35-6, Chromonar Hydrochloride 657-24-9, Metformin 661-19-8, Docosanol 672-87-7, Metyrosine 679-90-3, Roflurane 692-13-7, Buformin 695-53-4, Dimethadione 720-76-3, Fluminorex 723-46-6, Sulfamethoxazole 729-99-7, Sulfamoxole 735-52-4, Cetophenicol 738-70-5, Trimethoprim 739-71-9, Trimipramine 742-20-1, Cyclopenthiazide 747-36-4, Hydroxychloroquine Sulfate 749-02-0, Spiperone 749-13-3, Trifluperidol 751-94-0, Fusidate sodium 751-97-3, Rolitetracycline 773-76-2, Chloroxine 777-11-7, Haloprogin 797-63-7, Levonorgestrel 801-52-5, Porfiromycin 804-63-7, Quinine Sulfate 808-26-4, Sancycline 811-97-2, Norflurane 826-39-1, Mecamylamine Hydrochloride 829-74-3, Levonordefrin 846-49-1, Lorazepam 846-50-4, Temazepam 847-25-6, Racephenicol 848-75-9, Lormetazepam 852-19-7, Sulfazamet 852-42-6, Guaiapate 860-22-0 881-17-4 886-38-4, Diphencyprone 886-74-8, Chlorphenesin Carbamate 894-71-3, Nortriptyline Hydrochloride 896-71-9, Tigestol 909-39-7, Opipramol Hydrochloride 911-45-5, Clomiphene 914-00-1, Methacycline 955-48-6, Metalol Hydrochloride 956-90-1, Phencyclidine Hydrochloride 959-10-4, Xenbucin 962-02-7, Nitrodan 963-39-3, Demoxepam 965-90-2, Ethylestrenol 967-48-6, Flubanilate Hydrochloride 968-93-4, Testolactone 969-33-5, Cyproheptadine Hydrochloride 972-02-1, Diphenidol 976-71-6, Canrenone 977-79-7, Medrogestone 980-71-2, Brompheniramine Maleate 982-24-1, Clopenthixol 983-85-7, Penamecillin 985-16-0, Nafcillin Sodium 987-02-0, Demecycline 990-73-8, Fentanyl Citrate 1018-71-9, Pyrrolnitrin 1021-11-0, Guanoxyfen Sulfate 1038-59-1, Glyoctamide 1050-48-2, Benzilonium Bromide 1069-66-5, Valproate sodium 1070-11-7, Ethambutol hydrochloride 1070-95-7, Guanoctine Hydrochloride 1094-08-2, Ethopropazine Hydrochloride 1095-90-5, Methadone Hydrochloride 1098-60-8, Triflupromazine hydrochloride 1104-22-9, Meclizine Hydrochloride 1110-40-3, Cortivazol 1113-10-6, Guancydine 1134-47-0, Baclofen 1143-38-0, Anthralin 1146-98-1, Bromindione 1147-62-2, Pyrovalerone Hydrochloride 1150-20-5, Azabon 1151-11-7, Ipodate calcium 1155-03-9, Zolamine Hydrochloride 1156-19-0,

Tolazamide 1172-18-5, Flurazepam Hydrochloride 1173-88-2, Oxacillin Sodium 1197-18-8, Tranexamic acid 1197-21-3, Phentermine Hydrochloride 1199-18-4, Oxidopamine 1211-28-5, Prolintane Hydrochloride 1212-72-2, Mephentermine Sulfate 1212-83-5, Guanisoquin Sulfate 1218-35-5, Xylometazoline Hydrochloride 1220-83-3, Sulfamonomethoxine 1225-20-3, Iothalamate sodium 1225-55-4, Protriptyline hydrochloride 1227-61-8, Mefexamide 1231-93-2, Ethynodiol 1232-85-5, Elantrine 1234-71-5, Namoxyrate 1235-15-0, Norbolethone 1242-56-4, Stenbolone Acetate 1252-69-3, Piperamide Maleate 1253-28-7, Gestonorone Caproate 1263-89-4, Paromomycin Sulfate 1264-72-8, Colistin Sulfate 1271-19-8, Titanocene dichloride 1322-14-1, Calcium Undecylenate 1323-83-7, Glycerol distearate 1336-78-3, Imidecyl iodine 1392-21-8, Kitasamycin 1397-89-3, Amphotericin B 1400-61-9, Nystatin 1402-82-0, Amphomycin 1403-17-4, Candicidin 1403-71-0, Hamycin 1403-99-2, Mitogillin 1404-08-6, Neutramycin 1404-15-5, Nogalamycin 1404-20-2, Peliomycin 1404-48-4, Relomycin 1404-59-7, Rutamycin 1404-64-4, Sparsomycin 1404-88-2, Tyrothricin 1404-90-6, Vancomycin 1405-00-1, Viridofulvin 1405-20-5, Polymyxin B Sulfate 1405-37-4, Capreomycin sulfate 1405-41-0, Gentamicin Sulfate 1405-52-3, Sulfomyxin 1405-87-4, Bacitracin 1405-97-6, Gramicidin 1414-45-5, Nisin 1420-03-7, Propenzolate hydrochloride 1420-55-9, Thiethylperazine 1421-14-3, Propanidid 1424-00-6, Mesterolone 1432-75-3, Nitralamine Hydrochloride 1456-52-6, Ioprocemic acid 1476-53-5, Novobiocin Sodium 1477-40-3, Levomethadyl Acetate 1491-81-2, Bolmantalate 1508-65-2, Oxybutynin chloride 1508-75-4, Tropicamide 1508-76-5, Procyclidine Hydrochloride 1524-88-5, Flurandrenolide 1538-09-6 1553-34-0, Methixene Hydrochloride 1553-60-2, Ibufenac 1597-82-6, Paramethasone Acetate 1605-68-1, Taxane 1605-89-6, Bolasterone 1607-17-6, Pentrinitrol 1622-61-3, Clonazepam 1622-62-4, Flunitrazepam 1639-60-7, Propoxyphene hydrochloride 1642-54-2, Diethylcarbamazine Citrate 1649-18-9, Azaperone 1661-29-6, Meturedepa 1665-48-1, Metaxalone 1684-40-8, Tacrine Hydrochloride 1707-14-8, Phenmetrazine Hydrochloride 1722-62-9, Mepivacaine Hydrochloride 1740-22-3, Pyrinoline 1744-22-5, Riluzole 1764-85-8, Epithiazide 1786-81-8, Prilocaine Hydrochloride 1808-12-4, Bromodiphenhydramine Hydrochloride 1812-30-2, Bromazepam 1841-19-6, Fluspirilene
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(novel dosage form containing modified-release and immediate-release active ingredients)

IT 84290-27-7, Tucaresol 84371-65-3, Mifepristone 84379-13-5, Bretazenil 84392-17-6, Xenalipin 84408-37-7, Desciclovir 84412-94-2, Ruboxyl 84449-90-1, Raloxifene 84485-00-7, Sibutramine Hydrochloride 84490-12-0, Piroximone 84611-23-4, Erdosteine 84625-61-6, Itraconazole 84845-57-8, Ritipenem 84845-75-0, Niperotidine 84878-61-5, Maduramicin 85053-47-0, Suricainide Maleate 85068-76-4 85118-44-1, Minocromil 85136-71-6, Tilisolol 85175-67-3, Zatebradine 85181-38-0, Tropanserin hydrochloride 85197-77-9, Tipredane 85202-17-1, Stobadine 85216-79-1 85441-61-8, Quinapril 85465-82-3, Thymotrinan 85468-01-5, Gusperimus Trihydrochloride 85622-93-1, Temozolomide 85650-52-8, Mirtazapine 85666-17-7, Furegrelate Sodium 85683-41-6, Metipamide 85691-74-3, Pirmagrel 85721-33-1, Ciprofloxacin 85798-08-9, Quinpirole Hydrochloride 85977-49-7, Tauromustine 86015-38-5, Neflumozide Hydrochloride 86048-40-0, Quazolast 86050-77-3, Gadopentetate Dimeglumine 86116-60-1, Azaloxan Fumarate 86160-82-9, Lavoltidine Succinate 86181-42-2, Temelastine 86386-73-4, Fluconazole 86433-40-1, Terflavoxate 86487-64-1, Setoperone 86541-74-4, Benazepril Hydrochloride 86541-78-8, Benazeprilat 86828-07-1, Mallotojaponin 86832-68-0, Carumonam Sodium 86914-11-6, Tolgabide 87005-03-6, Panaxytriol 87051-43-2, Ritanserin 87056-78-8, Quinagolide 87071-16-7, Arclofenin 87173-97-5, Spiradoline Mesylate 87233-61-2,

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RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(novel dosage form containing modified-release and immediate-release active ingredients)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s L6/PREP
FIELD CODES CANNOT BE CHANGED HERE
You may have tried to apply a field code to a term that already has a field code. You can only add a field code to a term that has no field code appended to it.

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4601799 PREP/RL
13 L2/PREP
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(L2 (L) PREP/RL)
140 L3
4601799 PREP/RL
6 L3/PREP
(L3 (L) PREP/RL)
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L8 0 L1/PREP AND L2/PREP AND L3/PREP

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L9 151 L1/PREP
(L1 (L) PREP/RL)

=> D L9 ibib abs

L9 ANSWER 1 OF 151 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:91080 CAPLUS Full-text
DOCUMENT NUMBER: 148:160147
TITLE: Conjugates of psychotropic drugs or GABA agonists with organic acids for treatment of CNS diseases or disorders
INVENTOR(S): Nudelman, Abraham; Rephaeli, Ada; Gil-Ad, Irit; Weizman, Abraham
PATENT ASSIGNEE(S): Ramot at Tel Aviv University Ltd., Israel; Bar-Ilan University
SOURCE: PCT Int. Appl., 76pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2008010223 | A2 | 20080124 | WO 2007-IL903 | 20070717 |
| WO 2008010223 | A3 | 20080320 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2006-831192P P 20060717
US 2006-831195P P 20060717

AB A method of treating pain, addiction or other CNS disorders is claimed using a therapeutically effective amount of a chemical conjugate which comprises a first chemical moiety covalently linked to a second chemical moiety, wherein said first chemical moiety is selected from the group consisting of an antidepressant, an antiepileptic drug and a GABA agonist and wherein said second chemical moiety is selected from the group consisting of GABA and R-C(O)-, whereas R is an alkyl having 3-5-carbon atoms. The second moiety cas also be a GABA agonist. Pharmaceutical compns. and articles-of-manufacture containing the conjugates are also claimed. Synthetic procedures for preparing GABA-oxymethyl-GABA, GABA-oxymethyl-valproate, fluoxetine-GABA, and nortriptyline-GABA are exemplified.

=> s L1/SPN
7973 L1
2009163 SPN/RL
L10 71 L1/SPN
(L1 (L) SPN/RL)

=> D L10 ibib abs

L10 ANSWER 1 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2008:91080 CAPLUS Full-text
DOCUMENT NUMBER: 148:160147
TITLE: Conjugates of psychotropic drugs or GABA agonists with organic acids for treatment of CNS diseases or disorders
INVENTOR(S): Nudelman, Abraham; Rephaeli, Ada; Gil-Ad, Irit; Weizman, Abraham
PATENT ASSIGNEE(S): Ramot at Tel Aviv University Ltd., Israel; Bar-Ilan University
SOURCE: PCT Int. Appl., 76pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 2008010223 | A2 | 20080124 | WO 2007-IL903 | 20070717 |
| WO 2008010223 | A3 | 20080320 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2006-831192P P 20060717
US 2006-831195P P 20060717

AB A method of treating pain, addiction or other CNS disorders is claimed using a therapeutically effective amount of a chemical conjugate which comprises a first chemical moiety covalently linked to a second chemical moiety, wherein said first chemical moiety is selected from the group consisting of an antidepressant, an antiepileptic drug and a GABA agonist and wherein said second chemical moiety is selected from the group consisting of GABA and R-C(O)-, whereas R is an alkyl having 3-5-carbon atoms. The second moiety cas also be a GABA agonist. Pharmaceutical compns. and articles-of-manufacture containing the conjugates are also claimed. Synthetic procedures for preparing GABA-oxymethyl-GABA, GABA-oxymethyl-valproate, fluoxetine-GABA, and nortriptyline-GABA are exemplified.

=> D L10 2 ibib abs

L10 ANSWER 2 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1215841 CAPLUS Full-text
DOCUMENT NUMBER: 147:455613
TITLE: Halide-free glucosamine-acidic drug complexes
INVENTOR(S): Chopdekar, Vilas M.; Torntore, Michael J.
PATENT ASSIGNEE(S): JF C Technologies, LLC, USA
SOURCE: U.S. Pat. Appl. Publ., 6pp., Cont.-in-part of U.S.

Ser. No. 223,686.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| US 20070249735 | A1 | 20071025 | US 2007-731294 | | 20070331 |
| US 20070259043 | A1 | 20071108 | US 2005-223686 | | 20050909 |
| PRIORITY APPLN. INFO.: | | | US 2004-611178P | P | 20040917 |
| | | | US 2005-223686 | A2 | 20050909 |

AB A complex of glucosamine having a purity of at least about 99 wt.% and a maximum halide content of about 0.01 weight%, and a therapeutic drug having a pKa of less than 7 is provided. Preferably, the complex is stabilized by coating it with at least one pharmaceutically acceptable polymer comprising a water-soluble, water-immiscible and/or water-swellable homopolymer and/or copolymer. Suitable polymers include homopolymers and copolymers of carboxypolymethylene, polyethylene glycol, povidone, polyacrylic acid, polyacrylamide, polysaccharides and mixts. of two or more of the foregoing polymers. The resultant coated complex will be stable upon exposure to ambient temperature and/or the atmospheric Suitable therapeutic drugs fall into the following classes: α- and β-adrenergic agonists; narcotic and non-narcotic analgesics; anorexics; antiallergics; antianginals; antiarrhythmics; antiasthmatics; antibiotics; anticoagulants; anticonvulsants; antidepressants; antidiabetics; antihistaminics; antihypertensives; nonsteroidal anti-inflammatories; antimigraines; antineoplastics; antiparkinsonians; antipsychotics; antipyretics; antispasmodics; antithrombotics; antiulceratives; anxiolytics; decongestants; diuretics; hepatoprotectants; sedatives; and vasodilators. Thus, 3.58 g (0.02 mol) of halide-free glucosamine were added to 4.1 g (0.02 mol) of ibuprofen dissolved in 200 cc of methanol and the mixture was stirred for 1 h at 25-30°, resulting in a clear solution The methanol was evaporated at 50° from the reaction mixture giving 7 g of glucosamine-ibuprofen complex.

=> D L10 3-71 ibib abs

L10 ANSWER 3 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:254742 CAPLUS Full-text
DOCUMENT NUMBER: 147:469270
TITLE: A novel synthesis of some new imidazothiazole and glycocyamidine derivatives and studies on their antimicrobial activities
AUTHOR(S): El-Din, Asmaa A. Magd; Roaiah, Hanaa F.; Elsharabasy, Salwa A.; Hassan, Aisha Y.
CORPORATE SOURCE: Natural Products Department, National Research Centre, Cairo, Egypt
SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (2007), 182(3), 529-536
CODEN: PSSLEC; ISSN: 1042-6507
PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 147:469270

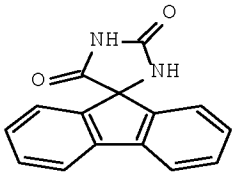
AB 5,5-Diphenyl-2-thioxoimidazolidin-4-one (1) reacted with chloroacetic acid 2a and Et chloroacetate 2b in an alkaline medium to afford 2-(4,5-dihydro-5-oxo-

4,4-diphenyl-1H-imidazol-2-ylthio)acetic acid (3a) and Et 2-(4,5-dihydro-5-oxo-4,4-diphenyl-1H-imidazol-2-ylthio)acetate (3b), resp. Compds. 3a,b were converted to 5,5-diphenylimidazolidine-2,4- dione (4) by boiling in EtOH-HCl. When compds. 3a,b were treated with polyphosphoric acid, cyclization occurred, and 6,6-diphenylimidazo[2,1- b]thiazole-3,5(2H,6H)-dione (5) was obtained. 4-(Furan-2-ylmethylene)-2- (methylthio)-1H-imidazol-5(4H)-one and its thien-2-ylmethylene analog (6a and 6b) reacted with hydrazine hydrate to give the corresponding hydrazones 7a,b. The reaction of the 1-Ph analogs of 6a and 6b with hydrazine hydrate afforded 3-amino-5-[(furan-2-yl/thien-2-yl)methylene]-2- phenyliminoimidazolidin-4-ones 10a,b. The antimicrobial activities of compds. 1, 3a,b, 5, 7a,b, and 10a,b were studied; 5 was the most active.

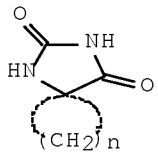
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

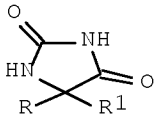
ACCESSION NUMBER: 2006:1125928 CAPLUS Full-text
DOCUMENT NUMBER: 146:274284
TITLE: Evaluating the one-pot synthesis of hydantoins
AUTHOR(S): Mahmoodi, Nosrat O.; Khodaee, Ziba
CORPORATE SOURCE: Department of Chemistry, University of Guilan, Rasht, Iran
SOURCE: ARKIVOC (Gainesville, FL, United States) (2007), (3), 29-36
CODEN: AGFUAR
URL: http://www.arkat-usa.org/ARKIVOC/JOURNAL_CONTENT/manuscripts/2007/EA-1914DP%20as%20published%20mainmanuscript.pdf
PUBLISHER: Arkat USA Inc.
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
OTHER SOURCE(S): CASREACT 146:274284
GI



I



II



III

AB Re-examn. of the facile one-pot synthesis of hydantoins is considered. An efficient method was utilized for the synthesis of spirohydantoins (I) and (II; n = 4, 5) and hydantoins (III; R = R1 = Ph; R = cyclohexyl, R1 = Ph; R = Ph, R1 = 4-chlorophenyl; R = 4-dimethylaminophenyl, 4-methylphenyl, 4-bromophenyl, 4-chlorophenyl, or Ph, and R = H) starting with ketones such as 9-fluorenone, benzophenone, cyclopentanone, cyclohexanone, cyclohexyl Ph ketone, and 4-chlorobenzophenone, benzoin, benzil, phenanthrene-9,10-dione, and aldehydes such as 4- dimethylaminobenzaldehyde, 4-methylbenzaldehyde, 4-chlorobenzaldehyde, and 4-bromobenzaldehyde. Two main and convenient procedures using either (i) KCN and (NH4)2 CO3 or (ii) urea and NaOH, EtOH were examined Thus, 3 g 9-fluorenone, 2.16 g KCN and 6.38 g (NH4)2CO3 were added to 50 mL 50% aqueous EtOH solution in a 100 mL round bottom flask equipped with a reflux condenser. The reaction mixture was stirred and heated to reflux at 50-65°, by an oil bath for 24 h, cooled to room temperature and filtered. The aqueous filtrate solution was adjusted to pH 2-3 by carefully

adding concentrate HCl so as to facilitate further crystallization and the crude material obtained was recrystd. from 96% EtOH, several times to give 82% I, namely spiro[fluorene-9,4'-imidazolidine]-2',5'-dione.

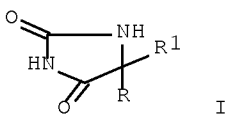
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1294782 CAPLUS Full-text
DOCUMENT NUMBER: 144:350594
TITLE: Synthesis of hydantoin, thiohydantoin and desulfuration of thiohydantoin to hydantoin
AUTHOR(S): Dubey, Vijay S.
CORPORATE SOURCE: Department of Chemistry, Hislop College, Nagpur, 440 001, India
SOURCE: Asian Journal of Chemistry (2005), Volume Date 2006, 18(1), 155-158
CODEN: AJCHEW; ISSN: 0970-7077
PUBLISHER: Asian Journal of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:350594

AB Condensation of benzil (or α-diketone obtained from auroneepoxide) with urea, thiourea and substituted thiourea in presence of ethanol in alkaline medium leads to the formation of hydantoin, thiohydantoin and substituted thiohydantoin. All the compds. were purified and analyzed using phys. and chemical methods and were further confirmed by spectral studies. The antimicrobial effect was studied by using cup-plate (nutrient-agar) technique on six different pathogenic microorganisms. The synthesized compds. were screened for their anti-AIDS property.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:570317 CAPLUS Full-text
DOCUMENT NUMBER: 141:410863
TITLE: One-Pot Synthesis of Phenytoin Analogs
AUTHOR(S): Mahmoodi, N. O.; Emadi, S.
CORPORATE SOURCE: Organic Research Laboratory, Department of Chemistry, University of Guilan, Rasht, 1914, Iran
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2004), 40(3), 377-382
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:410863
GI



I

AB Phenytoin I (R = R1 = Ph) (5,5-diphenylimidazolidine-2,4-dione or 5,5-diphenyl-hydantoin) and a series of phenytoin analogs I (R = R1 = C6H4-4-Me, -

4-OMe; R = C6H4-4-NMe2, -4-OMe, R1 = H) were synthesized in 65-75% yields via cyclocondensation of urea with the corresponding substituted benzils RCOCOR1. The same products were also obtained directly from α-hydroxy ketones via one-pot procedure.

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:281814 CAPLUS Full-text
DOCUMENT NUMBER: 141:33316
TITLE: Block of human NaV1.5 sodium channels by novel α-hydroxyphenylamide analogues of phenytoin
AUTHOR(S): Lenkowski, Paul W.; Ko, Seong-Hoon; Anderson, James D.; Brown, Milton L.; Patel, Manoj K.
CORPORATE SOURCE: Department of Chemistry, University of Virginia, Charlottesville, VA, 22904, USA
SOURCE: European Journal of Pharmaceutical Sciences (2004), 21(5), 635-644
CODEN: EPSCED; ISSN: 0928-0987
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:33316

AB Voltage-gated sodium (Na) channels are a crit. component of elec. excitable cells. Phenytoin (diphenylhydantoin, DPH) is an established sodium channel blocker and is a useful anticonvulsant and class 1b antiarrhythmic, and has been effectively used in the treatment of neuropathic pain. In this study, we have synthesized novel α-hydroxyphenylamide analogs of diphenylhydantoin and examined their ability to inhibit human Nav1.5 sodium channels expressed in Chinese Hamster Ovary (CHO-K1) cells. Ph ring substitutions were examined including para-Me, para-fluoro, para-chloro, ortho-chloro and meta-chloro. We have found that Ph ring substitutions with electron withdrawing properties resulted in compds. with greater activity. In comparison to diphenylhydantoin, the novel chloro-substituted α-hydroxyphenylamide compds. produced as much as a 20-fold greater tonic and frequency-dependent blockade of Nav1.5 channels with an IC50 value of 14.5 μM. In addition, the chloro-substitutions have position specific state dependent blocking properties. The ortho-, meta- and para-chloro substitutions have an 8-, 13- and 3-fold increased affinity for the inactivated state, resp. Mol. modeling suggests that these differences in affinity are due to a direct interaction with the receptor. Comparing models of diphenylhydantoin to the novel α-hydroxyphenlyamide compound suggests that the increased activity may be due to an optimized Ph ring position and increased mol. volume This information may be useful in the development of more potent sodium channel blockers.

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

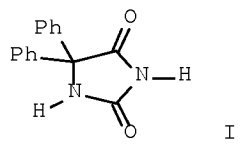
L10 ANSWER 8 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:271112 CAPLUS Full-text
DOCUMENT NUMBER: 139:323872
TITLE: Synthesis and characterization of optically active poly(amide-imide)s with hydantoin and thiohydantoin derivatives in the main chain
AUTHOR(S): Faghihi, Khalil; Zamani, Khosrow; Mallakpour, Shadpour
CORPORATE SOURCE: Department of Chemistry, Arak University, Arak, 38156, Iran
SOURCE: Iranian Polymer Journal (2002), 11(5), 339-347
CODEN: IPJOFF; ISSN: 1026-1265
PUBLISHER: Iran Polymer Institute

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Hydantoin and thiohydantoin derivs., i.e., 5,5-di-Ph hydantoin, 5,5-di-Ph thiohydantoin, 5,5-bis(4-chlorophenyl) hydantoin, 5,5-bis(4-chlorophenyl) thiohydantoin, 5,5-bis(4-Me phenyl) hydantoin, and 5,5-dimethylhydantoin (I), were synthesized from the reactions of benzil and benzil derivs. with urea and thiourea. I was synthesized from the reaction of acetone cyanohydrin and ammonium carbonate. Benzil and benzil derivs. were obtained from the oxidation of benzoin and benzoin derivs. with concentrated nitric acid. Benzoin and benzoin derivs. were obtained from benzoin condensation of benzaldehyde and benzaldehyde derivs. The hydantoin and thiohydantoin derivs. were characterized by m.ps., elemental anal., FTIR, 1H NMR and 13C NMR spectroscopy. The hydantoin and thiohydantoin compds. were polycondensed with 4,4-carbonyl-bis(phthaloyl-L-alanine) diacid chloride in DMAc solution in the presence of pyridine. The resulting poly(amide-imide)s, with inherent viscosities about 0.15-0.38 dL/g, were obtained in high yield and were optically active and thermally stable. All of the above compds. were fully characterized by means of FTIR spectroscopy, elemental anal., inherent viscosity (ηinh), solubility tests and sp. rotation. The thermal properties of the polymers were studied using thermal gravimetric anal. (TGA).

REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:91629 CAPLUS Full-text
DOCUMENT NUMBER: 139:6807
TITLE: A rapid and efficient microwave-assisted synthesis of hydantoins and thiohydantoins
AUTHOR(S): Muccioli, Giulio G.; Poupaert, Jacques H.; Wouters, Johan; Norberg, Bernadette; Poppitz, Wolfgang; Scriba, Gerhard K. E.; Lambert, Didier M.
CORPORATE SOURCE: Faculte de Medecine, Ecole de Pharmacie, Laboratoire de Chimie pharmaceutique et de Radiopharmacie, Universite catholique de Louvain, UCL-CMFA 7340, Brussels, B-1200, Belg.
SOURCE: Tetrahedron (2003), 59(8), 1301-1307
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:6807
GI




I

AB Studies on the synthesis of the antiepileptic drug phenytoin (I), and of structurally related derivs., are described. First, the influence of the solvent has been investigated in the microwave-assisted synthesis of the drug, resulting in a yield improvement and a cleaner reaction. Second, a two-step reaction is described to synthesize selectively and in high yields phenytoin. The first step consists of microwave activation of the reaction of benzil with

thiourea, the second step includes the conversion of the resulting 2-thiohydantoin to phenytoin using hydrogen peroxide. Moreover, microwave activation is a very convenient method for the synthesis of 3-alkylated phenytoin derivs., resulting in a much more selective method than the previously reported procedure using alkylating agents.
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 10 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:893101 CAPLUS Full-text
DOCUMENT NUMBER: 138:255591
TITLE: Microwave-assisted rapid synthesis of novel optically active poly(amide-imide)s containing hydantoins and thiohydantoins in main chain
AUTHOR(S): Faghihi, Khalil; Zamani, Khosrow; Mirsamie, Azizollah; Reza Sangi, Mohammad
CORPORATE SOURCE: Department of Chemistry, Arak University, Arak, 38156, Iran
SOURCE: European Polymer Journal (2002), Volume Date 2003, 39(2), 247-254
CODEN: EUPJAG; ISSN: 0014-3057
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:255591
AB Rapid and highly efficient synthesis of novel optically active poly(amide-imide)s (PAIs) 6(a-f) was achieved using microwave irradiation These were made from the polycondensation reactions of 4,4'-carbonyl-bis(phthaloyl-L-alanine) diacid chloride, [N,N'-(4,4'-carbonyldiphthaloyl)] bisalanine diacid chloride 5 with six different derivs. of hydantoin and thiohydantoin compds. 4(a-f) in the presence of a small amount of a nonpolar organic medium that acts as a primary microwave absorber. Hydantoin and thiohydantoin derivs. 4(a-e) were synthesis from the reactions between benzil or benzil derivs. 3(a-e) with urea and thiourea. 5,5-Dimethylhydantoin (4f) was synthesis from the reactions between acetone cyanohydrin (3f) and ammonium carbonate. The polycondensation proceeded rapidly, and was completed within 10 min giving a series of PAIs with an inherent viscosity about 0.25-0.45 dL/g. The resulting PAIs 6(a-f) were obtained in a high yield and were optically active and thermally stable. All of the above compds. were fully characterized by means of Fourier transform IR spectroscopy, elemental analyses, inherent viscosity (ηinh), solubility tests and sp. rotation. Thermal properties of the PAIs 6(a-f) were investigated using thermal gravimetric anal.
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:708653 CAPLUS Full-text
DOCUMENT NUMBER: 136:151368
TITLE: Synthesis of hydantocidin and C-2-thioxo-hydantocidin
AUTHOR(S): Shiozaki, M.
CORPORATE SOURCE: Exploratory Chemistry Research Laboratories, Sankyo Co. Ltd., Shinagawa-ku, Tokyo, 140-8710, Japan
SOURCE: Carbohydrate Research (2001), 335(3), 147-150
CODEN: CRBRAT; ISSN: 0008-6215
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:151368
AB Hydantocidin, a naturally occurring strong herbicide, was synthesized in an overall yield of 35.2%, with the accompanying 1'-epi-hydantocidin in overall

9.6% yield from 2,3-O-isopropylidene-D-ribono-1,4-lactone. C-2-thioxo-hydantocidin and its spiro-epimer were also synthesized in an overall yield of 14.4% and 8.5%, resp.
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 12 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:639650 CAPLUS Full-text
DOCUMENT NUMBER: 131:346154
TITLE: The influence of structure and lipophilicity of hydantoin derivatives on anticonvulsant activity
AUTHOR(S): Scholl, S.; Koch, A.; Henning, D.; Kempter, G.; Kleinpeter, E.
CORPORATE SOURCE: Institut fur Organische Chemie und Strukturanalytik, Universitat Potsdam, Postdam, D-14415, Germany
SOURCE: Structural Chemistry (1999), 10(5), 355-366
CODEN: STCHES; ISSN: 1040-0400
PUBLISHER: Kluwer Academic/Plenum Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The lipophilicity of a representative no. of hydantoin derivs. was exptl. determined by RP-HPLC. The stationary phase of RP-HPLC proved a good model to simulate effects of membrane transport. These exptl. values were correlated to theor. estimated lipophilicity values on the basis of global min. structures of the compds. studied. Both these lipophilicity and structure similarities within a proposed pharmacol. model for binding the hydantoin derivs. along the sodium channel were classified with respect to their biol. activity.
REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 13 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:536691 CAPLUS Full-text
DOCUMENT NUMBER: 131:299402
TITLE: 3-Alkyl-(5,5'-diphenyl)imidazolidinediones as new cannabinoid receptor ligands
AUTHOR(S): Kanyonyo, Martial; Govaerts, Sophie J.; Hermans, Emmanuel; Poupaert, Jacques H.; Lambert, Didier M.
CORPORATE SOURCE: Unite de Chimie Pharmaceutique et de Radiopharmacie, Universite Catholique de Louvain, Brussels, 1200, Belg.
SOURCE: Bioorganic & Medicinal Chemistry Letters (1999), 9(15), 2233-2236
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Twenty-four 3-alkyl-(5,5'-diphenyl)imidazolidinediones were synthesized and evaluated as new cannabinoid receptor ligands. Three compds. exhibited a Ki value around 100 nM against [3H]-SR 141716A binding obtained from human CB1 transfected CHO cells membranes. The lack of change of affinity in the presence of a non hydrolyzable GTP analog seems to indicate they are cannabinoid antagonists.
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 14 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:412636 CAPLUS Full-text
DOCUMENT NUMBER: 131:56144
TITLE: Specific binding assay using enzyme inhibitor and

anti-inhibitor antibodies
INVENTOR(S): Contestable, Paul B.; Daiss, John L.; Groth, Holly L.; Grogan, Elizabeth A.; Snyder, Brian A.
PATENT ASSIGNEE(S): Johnson & Johnson Clinical Diagnostics, Inc., USA
SOURCE: U.S., 16 pp., Cont. of U.S. Ser. No. 250,980, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5916757 | A | 19990629 | US 1996-683247 | 19960717 |
| PRIORITY APPLN. INFO.: | | | US 1994-250980 | B1 19940531 |

AB Specific binding ligands can be detected with an assay which utilizes an immobilized receptor for the ligand, an immobilized reporter enzyme, an inhibitor antibody and a water-soluble conjugate of the ligand and an anti-inhibitor antibody. Both antibodies are specific for the reporter enzyme, but the antibodies affect enzymic activity differently. The inhibitor antibody effectively shuts down the activity of the reporter enzyme when it is complexed thereto. The anti-inhibitor antibody binds to the reporter enzyme, does not affect the enzymic activity, but prevents the binding of the inhibitor enzyme. This assay provides a direct correlation of the generated signal to the target specific binding ligand. Horseradish peroxidase inhibitor and anti-inhibitor monoclonal antibodies were prepared by the hybridoma method from rats. Anti-inhibitor monoclonal antibody was conjugated with various haptens and used in assays for prostaglandin E2 (as marker for periodontal disease), diphenylhydantoin, phenobarbital, and digoxin.
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 15 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:527297 CAPLUS Full-text
DOCUMENT NUMBER: 129:161184
ORIGINAL REFERENCE NO.: 129:32803a,32806a
TITLE: Preparation of fatty acyl and alkyl derivatives of drugs and agrochemicals
INVENTOR(S): Myhren, Finn; Borretzen, Bernt; Dalen, Are; Sandvold, Marit Liland
PATENT ASSIGNEE(S): Norsk Hydro Asa, Norway
SOURCE: PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9832718 | A1 | 19980730 | WO 1998-NO21 | 19980123 |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW | | | | |
| RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |

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|---|---|---|---|---|
| GB 2321455 | A | 19980729 | GB 1997-1441 | 19970124 |
| ZA 9800579 | A | 19980723 | ZA 1998-579 | 19980123 |
| CA 2276694 | A1 | 19980730 | CA 1998-2276694 | 19980123 |
| CA 2276694 | C | 20070522 | | |
| AU 9857828 | A | 19980818 | AU 1998-57828 | 19980123 |
| AU 733370 | B2 | 20010510 | | |
| EP 977725 | A1 | 20000209 | EP 1998-901593 | 19980123 |
| EP 977725 | B1 | 20040616 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI | | | | |
| HU 2000000937 | A2 | 20000928 | HU 2000-937 | 19980123 |
| HU 2000000937 | A3 | 20010129 | | |
| HU 225664 | B1 | 20070529 | | |
| NZ 336724 | A | 20010629 | NZ 1998-336724 | 19980123 |
| JP 2001522351 | T | 20011113 | JP 1998-531863 | 19980123 |
| RU 2227794 | C2 | 20040427 | RU 1999-118313 | 19980123 |
| AT 269292 | T | 20040715 | AT 1998-901593 | 19980123 |
| ES 2224356 | T3 | 20050301 | ES 1998-901593 | 19980123 |
| IL 130853 | A | 20050320 | IL 1998-130853 | 19980123 |
| SK 284803 | B6 | 20051103 | SK 1999-1003 | 19980123 |
| TW 231209 | B | 20050421 | TW 1998-87103693 | 19980313 |
| NO 9903563 | A | 19990917 | NO 1999-3563 | 19990721 |
| US 20010006962 | A1 | 20010705 | US 1999-355111 | 19990927 |
| US 20030153544 | A1 | 20030814 | US 2002-116358 | 20020405 |
| US 6762175 | B2 | 20040713 | | |
| US 20040063677 | A1 | 20040401 | US 2003-662441 | 20030916 |

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|---|---|---|---|
| PRIORITY APPLN. INFO.: | GB 1997-1441 | A | 19970124 |
| | WO 1998-NO21 | W | 19980123 |
| | US 1999-355111 | B1 | 19990927 |
| | US 2002-116358 | A1 | 20020405 |

AB The properties of biol. active compds., for example drugs and agrochems. which contain in their mol. structure ≥1 functional groups selected from alc., ether, Ph, amino, amido, thiol, carboxylic acid, and carboxylic acid ester groups are modified by replacing one or more of these functional groups by a lipophilic group selected from those of the formula RCOO-, RCONH-, RCOS-, RCH2O-, RCH2NH-, -COOCH2R, -CONHCH2R and -SCH2R, (R = a lipophilic moiety selected from cis-8-heptadecenyl, trans-8-heptadecenyl, cis-10-nonadecenyl and trans-10-nonadecenyl). Data for biol. activity of title compds. were given.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 16 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:520228 CAPLUS Full-text

DOCUMENT NUMBER: 129:245090

ORIGINAL REFERENCE NO.: 129:49905a,49908a

TITLE: Superacid-activated condensation of parabanic acid and derivatives with arenes. A new synthesis of phenytoin and 5,5-diarylhydantoins

AUTHOR(S): Klumpp, Douglas A.; Yeung, Ka Yeun; Prakash, G. K. Surya; Olah, George A.

CORPORATE SOURCE: Department Chemistry, California State Polytechnic University, Pomona, CA, 91768, USA

SOURCE: Synlett (1998), (8), 918-920
CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 129:245090

AB A synthetic route to phenytoin and 5,5-diarylhydantoins is reported. Parabanic acid is converted to 5,5-diarylhydantoins (65-98% yield) from CF3SO3H and

arenes. Deuterium-substituted products are prepared in high yield from parabanic acid, CF3SO3D3, and deuterated arenes.

L10 ANSWER 17 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:488385 CAPLUS Full-text
DOCUMENT NUMBER: 129:85936
ORIGINAL REFERENCE NO.: 129:17633a,17636a
TITLE: Increased Shelf-Life of Fosphenytoin: Solubilization of a Degradant, Phenytoin, through Complexation with (SBE)7m-β-CD
AUTHOR(S): Narisawa, Shinji; Stella, Valentino J.
CORPORATE SOURCE: Department of Pharmaceutical Chemistry and Higuchi Biosciences Center for Drug Delivery Research, University of Kansas, Lawrence, KS, 66047., USA
SOURCE: Journal of Pharmaceutical Sciences (1998), 87(8), 926-930
CODEN: JPMSAE; ISSN: 0022-3549
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Fosphenytoin, a water-sol. prodrug of phenytoin, degrades primarily to phenytoin at pH values <8 during long term storage; phenytoin readily ppts. when formed from fosphenytoin due to its limited aqueous solubility The objective of this study was to develop stable formulations of fosphenytoin in the pH range of 7.4-8.0 by inhibiting the phenytoin precipitation through complexation with a parenterally safe cyclodextrin, (SBE)7m-β-CD. Phase solubility studies at 25° revealed that phenytoin was effectively solubilized by (SBE)7m-β-CD both in the presence and absence of 80.6 mg/mL fosphenytoin (as its dihydrate). The binding consts. for the phenytoin/cyclodextrin complex were 1073 and 792 M-1 at pH 7.4 and pH 8.0, resp. Because of the competitive inclusion between fosphenytoin and phenytoin with (SBE)7m-β-CD, the extent of solubilization of phenytoin was lower, as expected, in the presence of fosphenytoin than in the absence of fosphenytoin, even though the binding consts. for the fosphenytoin/cyclodextrin complex were relatively small (41-45 M-1). Initial rates were used to follow the production of phenytoin from fosphenytoin. Zero-order kinetics were observed under all conditions investigated. Phenytoin production rates were followed at 25, 37, and 50° in the presence of 0.03 or 0.06M (SBE)7m-β-CD. It was projected from the solubility of phenytoin and the kinetic information that fosphenytoin shelf-lives as high as 9 yr at 25° and pH 7.4 in the presence of 60 mM of (SBE)7m-β-CD might be possible while longer shelf-lives might be possible at pH 8.
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 18 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:79418 CAPLUS Full-text
DOCUMENT NUMBER: 128:166998
ORIGINAL REFERENCE NO.: 128:32909a,32912a
TITLE: System for multiple simultaneous synthesis of small-molecule organic compounds
INVENTOR(S): Dewitt, Sheila H. H.; Kiely, John S.; Pavia, Michael R.; Schroeder, Mel C.; Stankovic, Charles J.
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: U.S., 67 pp., Cont.-in-part of U.S. Ser.5,612,002.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5714127 | A | 19980203 | US 1995-475559 | 19950607 |
| US 5324483 | A | 19940628 | US 1993-12557 | 19930202 |
| US 5324483 | B1 | 19960924 | | |
| US 5612002 | A | 19970318 | US 1995-430696 | 19950428 |
| US 5565173 | A | 19961015 | US 1995-461998 | 19950605 |
| US 5567391 | A | 19961022 | US 1995-464161 | 19950605 |
| US 5582801 | A | 19961210 | US 1995-463545 | 19950605 |
| US 5593642 | A | 19970114 | US 1995-461475 | 19950605 |
| US 5766556 | A | 19980616 | US 1996-777270 | 19961231 |

PRIORITY APPLN. INFO.:

| | | |
|---|---|---|
| US 1992-958383 | B2 | 19921008 |
| US 1993-12557 | A3 | 19930202 |
| US 1994-217347 | B1 | 19940324 |
| US 1995-430696 | A2 | 19950428 |

AB A system for the multiple, simultaneous synthesis of org. compds., primarily by the solid-phase method, is disclosed. The system includes: (a) a sealed reaction apparatus comprising a reservoir member with a plurality of reaction wells for holding reaction materials, a plurality of tubular members (usually gas dispersion tubes) for holding reaction materials, a holder member attached to the reservoir for holding the tubular members, and a manifold member attached to the holder member and enclosing a portion of the tubular members, (b) a sample processor, (c) a means on the sample processor for dispensing and aspirating materials at least into and from said tubular members, (d) a first controller for the operation of the sample processor, including the dispensing and aspirating of materials into and from the tubular members, (e) a multi-axis robot member for manipulating the reaction apparatus on the sample processor, and (f) a second controller, for operation of the multi-axis robot member, in order to manipulate the reaction apparatus on the sample processor. The manifold top wall has a plurality of apertures in axial alignment with the reaction tubes, and a gasket which allows penetration by a needle in order to dispense and aspirate materials from the reaction tubes. Sealing members, such as gaskets, are placed between the holder block, manifold, and reservoir rack, and the components are releasably fastened together. A robotic sample processor is used to automate the synthesis process using the reaction apparatus The apparatus is constructed from materials which will accommodate heating, cooling, agitation, or corrosive reagents. The apparatus provides in excess of 1 mg of each product with structural knowledge and control over each compound The apparatus can be adapted to manual, semiautomatic, or fully automatic performance. Using the apparatus, a series of building blocks are covalently attached to a solid support. These building blocks are then modified by covalently adding addnl. different building blocks or chemical modifying some existing functionality until the penultimate structure is achieved. This is then cleaved from the solid support by another chemical reaction into the solution within the well, yielding an array of newly synthesized individual compds., which after post-reaction modification, if necessary, are suitable for testing for activity. A variety of organic compds. with different functionalities may be prepared by the system, including peptides, cyclic peptides, hydantoins, benzodiazepines, keto-ureas, nucleosides or analogs, cyclic nucleotides, carbocyclic compds. (e.g. tocopherols and steroids) and other N-, O-, and S-containing heterocyclic compds. (e.g., β-lactams and cephalosporins). The system is suitable for synthesizing compds. in an array format based on a structure of known biol. activity, for the purpose of developing a structure activity relationship for biol. agents such as muscarinic agonists, antiepileptics, antidepressants, HMG CoA reductase inhibitors, antiinflammatories, etc. Among several groups of compds. prepared in examples, 16 dipeptides containing Ala or Ile were

prepared in 26-85% yield, 40 hydantoins were prepared in 5-81% yield, and 40 benzodiazepines were prepared <5% to quant. yield.

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 19 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:15623 CAPLUS Full-text
DOCUMENT NUMBER: 128:114966
ORIGINAL REFERENCE NO.: 128:22545a,22548a
TITLE: Apparatus and method for solid phase multiple simultaneous synthesis.
INVENTOR(S): Dewitt, Sheila H. H.; Kell, Michael; Pavia, Michael R.; Kiely, John S.; Schroeder, Mel C.; Stankovic, Charles J.; Ware, Steven
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: U.S., 52 pp., Cont.-in-part of U.S. 5,612,002.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5702672 | A | 19971230 | US 1995-540512 | 19951010 |
| US 5324483 | A | 19940628 | US 1993-12557 | 19930202 |
| US 5324483 | B1 | 19960924 | | |
| US 5612002 | A | 19970318 | US 1995-430696 | 19950428 |
| US 5565173 | A | 19961015 | US 1995-461998 | 19950605 |
| US 5567391 | A | 19961022 | US 1995-464161 | 19950605 |
| US 5582801 | A | 19961210 | US 1995-463545 | 19950605 |
| US 5593642 | A | 19970114 | US 1995-461475 | 19950605 |
| US 5766556 | A | 19980616 | US 1996-777270 | 19961231 |
| PRIORITY APPLN. INFO.: | | | US 1992-958383 B2 | 19921008 |
| | | | US 1993-12557 A3 | 19930202 |
| | | | US 1994-217347 B3 | 19940324 |
| | | | US 1995-430696 A2 | 19950428 |

AB An app. for multiple, simultaneous synthesis of compds. consists of a reservoir block having a plurality of wells; a plurality of reaction tubes, usually gas dispersion tubes, having filters on their lower ends; a holder block, having a plurality of apertures; and a manifold, which may have ports to allow introduction/maintenance of a controlled environment. The manifold top wall has apertures and a detachable plate with identical apertures. Apparatus operation involves placing the filters on the lower ends of the reaction tubes in the reservoir block wells, and the upper ends passing through the holder block apertures and into the manifold. Dipeptides, hydantoins, and benzodiazepines were prepared

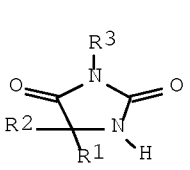
L10 ANSWER 20 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:694374 CAPLUS Full-text
DOCUMENT NUMBER: 125:327717
ORIGINAL REFERENCE NO.: 125:61391a,61394a
TITLE: A method for the combinatorial synthesis of mixtures of compounds
INVENTOR(S): Becker, Katherine; Dewitt, Sheila Hobbs
PATENT ASSIGNEE(S): Warner-Lambert Company, USA
SOURCE: PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

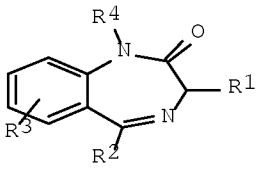
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9630393 | A1 | 19961003 | WO 1995-US16332 | 19951208 |
| W: AM, AU, BG, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LT, LV, MD, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, UA, UZ | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| AU 9644244 | A | 19961016 | AU 1996-44244 | 19951208 |
| PRIORITY APPLN. INFO.: | | | US 1995-411040 A | 19950327 |
| | | | WO 1995-US16332 W | 19951208 |

GI




I




II

AB Described is a method of synthesizing a plurality of compds., such as dipeptides, hydantoins [I; R1 = H, Ph; R2 = H, Me, PhCH2, etc.; R3 = H, Bu, H2C:CHCH2, etc.], benzodiazepines [II; R1 = H, Me, iPr, 4-HOC6H4CH2, indol-3-ylmethyl; R2 = Ph, 4-MeOC6H4, cyclohexyl, 2-thienyl; R3 = H, Cl, Me, NO2; R4 = H, Me, iPr], etc., in a plurality of wells comprising the steps of: (a) providing a plurality of test wells in a plurality of arrays of the wells; (b) reacting in at least one step reaction a first reagent with a plurality of reagents called building blocks in the test well to obtain a unique product designed to be the same in each array; and (c) continuing to react reagents such that there are multiple reagents resulting in mixts. of multiple different products in each well. The resulting 40 benzodiazepines were tested for activity in a benzodiazepine receptor binding assay and their IC50 values were given.

L10 ANSWER 21 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:599190 CAPLUS Full-text
DOCUMENT NUMBER: 125:219625
ORIGINAL REFERENCE NO.: 125:41079a,41082a
TITLE: Inhibitor and anti-inhibitor monoclonal antibodies specific for horseradish peroxidase
INVENTOR(S): Gorman, Kevin M.; Daiss, John L.
PATENT ASSIGNEE(S): Johnson & Johnson Clinical Diagnostics, Inc., USA
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 690071 | A2 | 19960103 | EP 1995-303657 | 19950530 |

| | | | | |
|---|---|---|---|---|
| EP 690071 | A3 | 19961016 | | |
| EP 690071 | B1 | 20001227 | | |
| R: BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| US 5650324 | A | 19970722 | US 1994-251496 | 19940531 |
| CA 2150497 | A1 | 19951201 | CA 1995-2150497 | 19950530 |
| CA 2150497 | C | 20061017 | | |
| PT 690071 | T | 20010430 | PT 1995-303657 | 19950530 |
| ES 2157294 | T3 | 20010816 | ES 1995-303657 | 19950530 |
| AU 9520409 | A | 19951207 | AU 1995-20409 | 19950531 |
| JP 08053497 | A | 19960227 | JP 1995-134031 | 19950531 |
| JP 3745411 | B2 | 20060215 | | |
| GR 3035547 | T3 | 20010629 | GR 2001-400388 | 20010309 |

PRIORITY APPLN. INFO.: US 1994-251496 A 19940531

AB Monoclonal antibodies have been prepd. which are of the IgG isotype and are highly specific for horseradish peroxidase. One group of antibodies inhibits at least about 95% of the normal activity of horseradish peroxidase when bound to the enzyme. A second group of antibodies inhibits less than about 20% of the enzymic activity when bound to the enzyme, but prevents the binding of the antibodies from the first group. The antibodies in either group can be conjugated to specific binding ligands such as drugs or hormones.

L10 ANSWER 22 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1996:115666 CAPLUS Full-text
DOCUMENT NUMBER: 124:260004
ORIGINAL REFERENCE NO.: 124:48171a,48174a
TITLE: Combinatorial organic synthesis using Parke-Davis's diversomer method
AUTHOR(S): DeWitt, Sheila Hobbs; Czarnik, Anthony W.
CORPORATE SOURCE: Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, Ann Arbor, MI, 48105, USA
SOURCE: Accounts of Chemical Research (1996), 29(3), 114-22
CODEN: ACHRE4; ISSN: 0001-4842
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Derivs. of 2,4-imidazolidinedione (hydantoin), 2H-1,4-benzodiazepin-2-one and 2,4-dihydro-3H-fluoreno[1,9-ef]-1,4-diazepin-3-one were prepared in a com. available Parke-Davis's Diversomer Apparatus and screened for biol. activity. The advantages of combinatorial synthesis were discussed.

L10 ANSWER 23 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:766526 CAPLUS Full-text
DOCUMENT NUMBER: 123:339894
ORIGINAL REFERENCE NO.: 123:61003a,61006a
TITLE: Synthesis, structure and properties of 5,5-diphenyl-2,3,5,6-tetrahydroimidazo[2,1-b]imidazoline-3,6-dione
AUTHOR(S): Kiec-Kononowicz, Katarzyna; Karolak-Wojciechowska, Janina; Mrozek, Agnieszka; Posel, Maciej
CORPORATE SOURCE: Department of Chemical Technology of Drugs, Collegium Medicum of Jagiellonian University, Krakow, PL 30-688, Pol.
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1995), 328(6), 517-21
CODEN: ARPMAS; ISSN: 0365-6233
PUBLISHER: VCH
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 123:339894

AB Cyclization of N-(5,5-diphenyl-4-oxo-2-imidazolidinyl)glycine yielded 5,5-diphenyl-2,3,5,6-tetrahydroimidazo[2,1-b]imidazoline-3,6-dione (6) or its acetyl derivative 5, depending on the method used. The stabilities of 5 and 6 in acidic or alkaline solns. were examined The crystal structure of the hydrolysis products of 5 and 6 were solved by x-ray anal.

L10 ANSWER 24 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:746664 CAPLUS Full-text

DOCUMENT NUMBER: 123:142970

ORIGINAL REFERENCE NO.: 123:25449a,25452a

TITLE: Gas/Solid Reactions with Nitrogen Dioxide

AUTHOR(S): Kaupp, Gerd; Schmeyers, Jens

CORPORATE SOURCE: FB 9-Organic Chemistry I, University of Oldenburg, Oldenburg, D-26111, Germany

SOURCE: Journal of Organic Chemistry (1995), 60(17), 5494-503
CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 123:142970

AB Virtually all primary reaction types of NO2 with org. substrates (electron transfer, oxygen atom transfer, H-abstraction, and O/C- and N/C-bond formation) have been demonstrated for gas/solid reactions. Atomic force microscopy (AFM) measurements on prominent faces of single crystals of nitroxyls, anthracene, and tetraphenylethylene reveal phase rebuildings with well-directed long-range mol. transports. Mol. interpretations of the AFM features are given.

L10 ANSWER 25 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:441042 CAPLUS Full-text

DOCUMENT NUMBER: 122:222646

ORIGINAL REFERENCE NO.: 122:40526h,40527a

TITLE: Dissolution behavior of phenytoin-bile salt complexes prepared by co-grinding

AUTHOR(S): Otsuka, Makoto; Matsuda, Yoshihisa

CORPORATE SOURCE: Kobe Pharm. Univ., Kobe, 658, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1994), 42(11), 2382-4
CODEN: CPBTAL; ISSN: 0009-2363

PUBLISHER: Pharmaceutical Society of Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The physicochem. properties of phenytoin (PHT)-bile salt complexes comprised of sodium dehydrocholate (DHCNa), sodium deoxycholate (DCNa) or sodium cholate (CNa) prepared by co-grinding were investigated by x-ray diffraction anal., DSC and dissoln. kinetics. All x-ray diffraction peak intensities of the co-ground PHT-bile salt [1:1] mixts. were decreased by grinding for 3 h, and showed a halo pattern of a noncryst. solid. The solubility of ground products with DCNa, DHCNa and CNa were 212-, 56-, 68-fold higher, resp., than those of phys. mixts.

L10 ANSWER 26 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1995:308615 CAPLUS Full-text

DOCUMENT NUMBER: 122:106536

ORIGINAL REFERENCE NO.: 122:20071a,20074a

TITLE: Apparatus and method for multiple simultaneous

synthesis of peptides and other organic compounds

INVENTOR(S): Cody, Donna Reynolds; Dewitt, Sheila Helen Hobbs; Hodges, John Cooke; Roth, Bruce David; Schroeder, Mel Conrad; Stankovic, Charles John; Moos, Walter Hamilton; Pavia, Michael Raymond; Kiely, John Steven

PATENT ASSIGNEE(S): Warner-Lambert Co., USA

SOURCE: PCT Int. Appl., 143 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 9408711 | A1 | 19940428 | WO 1993-US9666 | 19931008 |
| W: AU, CA, CZ, FI, HU, JP, KR, NO, NZ, RU, SK | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| US 5324483 | A | 19940628 | US 1993-12557 | 19930202 |
| US 5324483 | B1 | 19960924 | | |
| AU 9453558 | A | 19940509 | AU 1994-53558 | 19931008 |
| EP 663856 | A1 | 19950726 | EP 1993-923827 | 19931008 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| JP 08502482 | T | 19960319 | JP 1993-510171 | 19931008 |

PRIORITY APPLN. INFO.:

| | | |
|---|---|---|
| US 1992-958383 | A | 19921008 |
| US 1993-12557 | A | 19930202 |
| WO 1993-US9666 | W | 19931008 |

AB An app. and method provide a suitable location for multiple, simultaneous synthesis of compds. by the solid phase method. The apparatus consists of (1) a reservoir block having a plurality of wells, (2) a plurality of reaction tubes, usually gas dispersion tubes, having filters on their lower ends, (3) a holder block having a plurality of apertures, and (4) a manifold, which may have ports to allow introduction/maintenance of a controlled environment. The manifold top wall has apertures and a detachable plate with identical apertures. The apparatus is constructed from materials which will accommodate heating, cooling, agitation, or corrosive reagents. Gaskets are placed between the components. Rods or clamps are provided for fastening the components together. Apparatus operation involves placing the filters on the lower ends of the reaction tubes in the reservoir block wells, and the upper ends passing through the holder block apertures and into the manifold. The apparatus provides in excess of 1 mg of each product with structural knowledge and control over each compound The apparatus can be adapted to manual, semiautomatic of fully automatic performance. Using the apparatus a series of building blocks are covalently attached to a solid support. These building blocks are then modified by covalently adding addnl. different building blocks or chemical modifying some existing functionality until the penultimate structure is achieved. This is then cleaved from the solid support by another chemical reaction into the solution within the well yielding an array of newly synthesized individual compds., which after post-reaction modification, if necessary, are suitable for testing for activity. A class of organic compds. with different functionalities including peptides, cyclic peptides, hydantoins, benzodiazepines, keto-ureas, nucleosides or analogs, cyclic nucleotides, carbocyclic compds. (e.g. tocopherols and steroids) and other N-, O-, and S-containing heterocyclic compds. (e.g. β-lactams and cephalosporins) are simultaneously prepared by this apparatus This apparatus is suitable for synthesizing a series of compds. simultaneously in an array format based on a structure of known biol. activity for the purpose of developing a structure activity relationship for biol. agents such as muscarinic agonists, antiepileptics, antidepressants, HMG CoA reductase inhibitors, antiinflammatories, etc.

L10 ANSWER 27 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:137709 CAPLUS Full-text
DOCUMENT NUMBER: 122:177662
ORIGINAL REFERENCE NO.: 122:32293a,32296a
TITLE: Phenytoin derivatives as potent σ ligands
AUTHOR(S): Hudkins, Robert L.; DeHaven-Hudkins, Diane L.
CORPORATE SOURCE: Albany Mol. Res., Albany, NY, 12203, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (1994), 4(18), 2185-8
CODEN: BMCLE8; ISSN: 0960-894X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A series of 4-phenylpiperidinyl and 4-phenylpiperazinyl alkyl spaced 5,5-diphenylhydantoins was prepared and evaluated for affinity at σ sites. Increasing the alkyl spacer between the two pharmacophore recognition units resulted in a progressive increase in σ binding affinity. The pentyl 12 and hexyl 13 4-phenylpiperidine derivs. exhibited subnanomolar affinity (0.7 nM and 0.6 nM) for the PENT site.

L10 ANSWER 28 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1994:404529 CAPLUS Full-text
DOCUMENT NUMBER: 121:4529
ORIGINAL REFERENCE NO.: 121:999a,1002a
TITLE: Labeled drug hapten analogs for immunoassays
INVENTOR(S): Danielson, Susan J.; Brummond, Barbara A.; Oenick, Marsha D. B.; Ponticello, Ignazio S.; Hilborn, David A.
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 712,330, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 5298403 | A | 19940329 | US 1992-851439 | 19920316 |
| CA 2062240 | A1 | 19921208 | CA 1992-2062240 | 19920416 |
| EP 517326 | A2 | 19921209 | EP 1992-201581 | 19920602 |
| EP 517326 | A3 | 19930407 | | |
| EP 517326 | B1 | 20010816 | | |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| AT 204384 | T | 20010915 | AT 1992-201581 | 19920602 |
| JP 05172814 | A | 19930713 | JP 1992-145980 | 19920605 |
| JP 3190729 | B2 | 20010723 | | |

PRIORITY APPLN. INFO.: US 1991-712330 B2 19910607
US 1992-851439 A 19920316

AB The invention is directed to labeled drug hapten analogs comprising: (A) a label, of the type used in immunoassays, having an amine or sulfhydryl group; (B) a drug hapten nucleus selected from barbiturates or hydantoins; and (C) a linking chain linking the 3-position of the drug hapten nucleus to the label through a carbonyl bridge. 5-Ethyl-5-phenyl-1-{4-[4-(3-succinimidoxycarbonylpropionyl)-1-piperazinylcarbonyl]butyl}-2,4,6-(1H,3H,5H)pyrimidinetrione (I) was prepared from phenobarbital and Me 5-

bromovalerate in 7 steps. I was conjugated with amine-enriched horseradish peroxidase (L-lysine reaction products with peroxidase) to show improved antibody recognition.

L10 ANSWER 29 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1994:299113 CAPLUS Full-text
DOCUMENT NUMBER: 120:299113
ORIGINAL REFERENCE NO.: 120:52733a,52736a
TITLE: Part 1. Synthetic studies of some unsymmetrically substituted sulfamides and 5,5-diphenylhydantoin. Part 2. Photoinduced generation of glycosyl cations from thioglycosides for possible application in oligosaccharide synthesis
AUTHOR(S): Bandara, Nayanie Champika
CORPORATE SOURCE: Univ. New Orleans, New Orleans, LA, USA
SOURCE: (1992) 127 pp. Avail.: Univ. Microfilms Int., Order No. DA9230592
From: Diss. Abstr. Int. B 1992, 53(6), 2865
DOCUMENT TYPE: Dissertation
LANGUAGE: English
AB Unavailable

L10 ANSWER 30 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1993:656382 CAPLUS Full-text
DOCUMENT NUMBER: 119:256382
ORIGINAL REFERENCE NO.: 119:45625a,45628a
TITLE: Phenytoin-lipid conjugates: Chemical, plasma esterase-mediated, and pancreatic lipase-mediated hydrolysis in vitro
AUTHOR(S): Scriba, Gerhard K. E.
CORPORATE SOURCE: Dep. Pharm. Chem., Univ. Muenster, Muenster, 48149, Germany
SOURCE: Pharmaceutical Research (1993), 10(8), 1181-6
CODEN: PHREEB; ISSN: 0724-8741
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Phenytoin-lipid conjugates obtained by covalent binding of hydroxymethylphenytoin to diacyl glycerides and to 3-acyloxy-2-acyloxymethylpropionic acids formed dispersions with a particle size of 10-200 μM when briefly sonicated in a sodium taurodeoxycholate-containing ethanol-water mixture In contrast to the corresponding bis-deacyl derivs., the lipids were not significantly hydrolyzed in aqueous buffers and in plasma. Incubation with pancreatic lipase yielded primarily the bis-deacyl compds., which are comparable to monoglycerides, and subsequently liberated phenytoin. The glyceride-derived prodrugs were better substrates for the enzyme than the 3-acyloxy-2-acyloxymethylpropionic acid derivs. Thus, the phenytoin lipid conjugates are hydrolyzed by pancreatic lipase in a similar manner as natural triglycerides.

L10 ANSWER 31 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1993:617285 CAPLUS Full-text
DOCUMENT NUMBER: 119:217285
ORIGINAL REFERENCE NO.: 119:38477a,38480a
TITLE: Phenytoin-lipid conjugates as potential prodrugs of phenytoin
AUTHOR(S): Scriba, Gerhard K. E.
CORPORATE SOURCE: Dep. Pharm. Chem., Univ. Muenster, Muenster, D-48149,

Germany
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1993), 326(8), 477-81
CODEN: ARPMAS; ISSN: 0365-6233
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Phenytoin-1-triglycerides and phenytoin-2-triglycerides were synthesized as potential prodrugs of phenytoin by covalent binding of 3-hydroxymethylphenyltoin by succinic acid to the positions 1 and 2, resp., of diglycerides. The corresponding 1- and 2-monoglycerides were also prepared In addition, replacement of glycerol by 3-hydroxy-2- hydroxymethylpropionic acid furnished lipids that allowed direct coupling of 3-hydroxymethylphenytoin. The lipid conjugates proved to be substrates for pancreatic lipase in vitro.

L10 ANSWER 32 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1993:260830 CAPLUS Full-text
DOCUMENT NUMBER: 118:260830
ORIGINAL REFERENCE NO.: 118:45219a,45222a
TITLE: Optimization of phenytoin preparation
AUTHOR(S): Ponte, C. I. R. V.; Bacha, C. T. M.; Seixas, L. M. J.; Todeschini, A. R.; Cunha, A.; Carvalho, E.
CORPORATE SOURCE: Fac. Farm., UFRGS, Brazil
SOURCE: Revista Brasileira de Farmacia (1992), 73(1), 11-12
CODEN: RBFAAH; ISSN: 0370-372X
DOCUMENT TYPE: Journal
LANGUAGE: Portuguese
AB Improvements were made in the chem. processes to obtain phenytoin, a drug used in psychomotor epilepsy treatment. The processes can be adapted to pilot plant scale.

L10 ANSWER 33 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:633927 CAPLUS Full-text
DOCUMENT NUMBER: 117:233927
ORIGINAL REFERENCE NO.: 117:40459a,40462a
TITLE: A convenient preparation of symmetrical and unsymmetrical 1,2-diketones: application to fluorinated phenytoin synthesis
AUTHOR(S): Page, Philip C. Bulman; Graham, Andrew E.; Park, B. Kevin
CORPORATE SOURCE: Dep. Chem., Univ. Liverpool, Liverpool, L69 3BX, UK
SOURCE: Tetrahedron (1992), 48(35), 7265-74
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 117:233927
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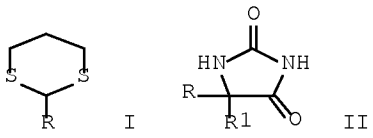
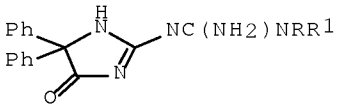


AB 1,2-Diketones RCOCOR1 (R = Ph, 2-, 3-, 4-FC6H4, R1 = Ph, 2-, 3-, 4-FC6H4, Et, Pr) are efficiently produced in two steps by reaction of R1CHO with anions derived from 2-substituted dithianes I followed by treatment of the resulting alcs. with NBS in aqueous acetone. Phenytoin derivs. II (Ph, 2-, 3-, 4-FC6H4, R1 = Ph, 2-, 3-, 4-FC6H4) were prepared from these diketones by a standard method involving treatment with urea and potassium hydroxide under reflux.

L10 ANSWER 34 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:187524 CAPLUS Full-text
DOCUMENT NUMBER: 116:187524
ORIGINAL REFERENCE NO.: 116:31511a,31514a
TITLE: Analysis of a clinically important interaction between phenytonin and Shankhapushpi, and Ayurvedic preparation
AUTHOR(S): Dandekar, U. P.; Chandra, R. S.; Dalvi, S. S.; Joshi, M. V.; Gokhale, P. C.; Sharma, A. V.; Shah, P. U.; Kshirsagar, N. A.
CORPORATE SOURCE: Dep. Pharmacol. Clin. Pharmacol., Seth Gordhandas Sunderdas Med. Coll., Bombay, 400-012, India
SOURCE: Journal of Ethnopharmacology (1992), 35(3), 285-8
CODEN: JOETD7; ISSN: 0378-8741
DOCUMENT TYPE: Journal
LANGUAGE: English
AB During the course of routine plasma drug level monitoring, an unexpected loss of seizure control and reduction in plasma phenytoin levels was noticed in 2 patients who were also taking Shankhapushi (SRC), an Ayurvedic preparation Therefore, the present study was undertaken in rats to investigate any SRC-phenytoin interaction from both pharmacokinetic (serum levels) and pharmacodynamic (electroshock seizure prevention) aspects. Single dose SRC and phenytoin (oral/i.p.) coadministration did not have any effect on plasma phenytoin levels but decreased the antiepileptic activity of phenytoin significantly. On multiple-dose coadministration, SRC reduced not only the antiepileptic activity of phenytoin but also lowered plasma phenytoin levels. SRC itself showed significant antiepileptic activity compared to placebo and is worth further investigation. However, the clin. combination of SRC with phenytoin is not advised.

L10 ANSWER 35 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1991:679900 CAPLUS Full-text
DOCUMENT NUMBER: 115:279900
ORIGINAL REFERENCE NO.: 115:47563a,47566a
TITLE: Reactions of carbonic acid diamides with α-hydroxy ketones and α-diketones. Part 4. Reactions of substituted biguanides with benzil in ethanol under the influence of sodium ethanolate
AUTHOR(S): Schramm, H. W.
CORPORATE SOURCE: Inst. Pharm. Chem., Karl-Franzens-Univ., Graz, A-8010, Austria
SOURCE: Scientia Pharmaceutica (1991), 59(2), 123-33
CODEN: SCPHA4; ISSN: 0036-8709
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 115:279900
GI

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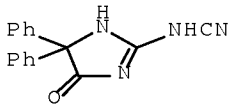


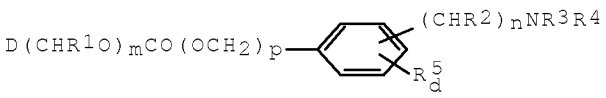

II

AB The imidazole derivs. I (R = Me, cyclohexyl, 4-MeC6H4, 4-MeOC6H4, 2-C1C6H4, 2,4-Cl(Me)C6H3, 4,2-Cl(Me)C6H3; R1 = H, Me; RR1 = (CH2)n, n = 4, 6) were prepared by treating benzil with H2NC(:NH)N:C(NH2)NRR1 in the presence of NaOEt. I reacted with Cu(II) to form lilac-colored diimidazolidinylguanidine complexes. I (R = 4-MeC6H4, R1 = H) was also prepared by aminolysis of 4-oxo-5,5-diphenyl-(3H)-1-imidazolin-2-ylcyanamide (II) and yielded 5,5-diphenylimidazolidine-2,4-dione upon hydrolysis. I (R = 4-MeC6H4, R1 = H) also exhibited anthelmintic activity (no data).

L10 ANSWER 36 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1991:228552 CAPLUS Full-text
DOCUMENT NUMBER: 114:228552
ORIGINAL REFERENCE NO.: 114:38533a,38536a
TITLE: Preparation of (aminoalkyl)phenylacyl-derivatized drugs with improved solution stability and solubility
INVENTOR(S): Bundgaard, Hans; Falch, Erik
PATENT ASSIGNEE(S): Den.
SOURCE: PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | | DATE |
|---|---|---|---|---|---|
| WO 9008128 | A1 | 19900726 | WO 1990-DK20 | | 19900119 |
| W: AU, CA, FI, JP, KR, NO, US | | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE | | | | | |
| CA 2045591 | A1 | 19900721 | CA 1990-2045591 | | 19900119 |
| AU 9050323 | A | 19900813 | AU 1990-50323 | | 19900119 |
| EP 454773 | A1 | 19911106 | EP 1990-902624 | | 19900119 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE | | | | | |
| JP 04502918 | T | 19920528 | JP 1990-502553 | | 19900119 |
| PRIORITY APPLN. INFO.: | | | DK 1989-240 | A | 19890120 |
| | | | WO 1990-DK20 | A | 19900119 |

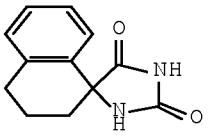
OTHER SOURCE(S): MARPAT 114:228552
GI




I

AB The title compds. [I; D = residue of an NH- or OH-contg. drug; R1 = H, alkyl, aryl, aralkyl, alkoxycarbonyl, carbamoyl; R2 = H, alkyl; R3, R4 = H, (substituted) alkyl, aralkyl, alkenyl, cycloalkyl; R3R4N = (substituted) heterocyclyl; R5 = halo, OH, alkyl, alkoxy; d = 0-4; m,p = 0,1; n = 1-4] were prepared as prodrugs having improved stability in aqueous solution Thus, hydrocortisone in CH2Cl2 was stirred with Et3N and 3-ClCH2C6H4COCl to give hydrocortisone 21-(3-chloromethyl)benzoate. The latter was stirred with NaI and N-methylpiperazine in Me2CO at 60° to give hydrocortisone 21-[3-(4-methylpiperazin-1-yl)methyl]benzoate, converted to the dihydrochloride. The latter had solubility of 3.5 mg/mL in H2O at 21°, vs. 0.40 mg/mL for hydrocortisone itself. I are preferably stored at pH 3-5. I derivs. of hydrocortisone showed t1/2 of 8-147 min in human plasma at pH 7.4.

L10 ANSWER 37 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1991:17446 CAPLUS Full-text
DOCUMENT NUMBER: 114:17446
ORIGINAL REFERENCE NO.: 114:2973a,2976a
TITLE: Sodium channel binding and anticonvulsant activities of hydantoins containing conformationally constrained 5-phenyl substituents
AUTHOR(S): Brouillette, Wayne J.; Brown, George B.; DeLorey, Timothy M.; Liang, Gang
CORPORATE SOURCE: Dep. Chem., Univ. Alabama, Birmingham, AL, 35294, USA
SOURCE: Journal of Pharmaceutical Sciences (1990), 79(10), 871-4
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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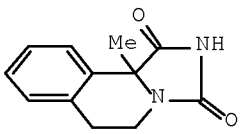
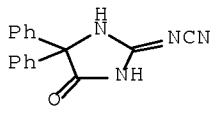


II

AB As a preliminary investigation of the importance of the arom. ring orientation in interactions of 5-phenylhydantoins with the anticonvulsant site on the neuronal voltage-sensitive Na channel, 2 isomeric hydantoins containing conformationally constrained Ph rings and their monocyclic analogs were synthesized. One, a spirohydantoin (I) derived from α-tetralone, contains the plane of the Ph ring in an orientation approx. perpendicular to that for the hydantoin ring. The other, a tricyclic hydantoin (II) derived from tetrahydroisoquinoline, contains the plane of the Ph ring in an orientation roughly coplanar with that for the hydantoin ring. These compds. were evaluated in Na channel binding and whole animal (mice) anticonvulsant assays. In both assays, II was significantly more perfect than I, suggesting that the anticonvulsant receptor site on the voltage-sensitive Na channel may require a specific aromatic ring orientation.

L10 ANSWER 38 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:478239 CAPLUS Full-text
DOCUMENT NUMBER: 113:78239

ORIGINAL REFERENCE NO.: 113:13239a,13242a
TITLE: The reactions of carbonic diamides α-hydroxy ketones and α-diketones. Part 1. The reaction of cyanoguanidine with benzil
AUTHOR(S): Schramm, H. W.
CORPORATE SOURCE: Inst. Pharm. Chem., Karl-Franzens-Univ., Graz, A-8010, Austria
SOURCE: Scientia Pharmaceutica (1989), 57(4), 385-90
CODEN: SCPHA4; ISSN: 0036-8709
DOCUMENT TYPE: Journal
LANGUAGE: German
GI



I

AB Cyanoguanidine reacts with benzil in KOH/EtOH with 1,2-rearrangement to yield the imidazolinylcyanamide I. The isomeric 1- and 3-cyano-2-aminoimidazolidinones and are not formed in the reaction. The structure of I was proven by spectroscopic and chemical methods.

L10 ANSWER 39 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:154859 CAPLUS Full-text
DOCUMENT NUMBER: 112:154859
ORIGINAL REFERENCE NO.: 112:26083a,26086a
TITLE: Immobilization of haptens for measurement by immunoassay using surface plasmon resonance (SPR)
INVENTOR(S): Corrie, John; Fairclough, Lynne; Charles, Stephen Alexander; Finlan, Martin Francis
PATENT ASSIGNEE(S): Amersham International PLC, UK
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

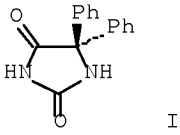
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| WO 8908260 | A1 | 19890908 | WO 1989-GB156 | 19890223 |
| W: JP, SU | | | | |
| RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE | | | | |
| EP 378594 | A1 | 19900725 | EP 1989-904150 | 19890223 |
| R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| JP 03503679 | T | 19910815 | JP 1989-503761 | 19890223 |
| AU 8930774 | A | 19890831 | AU 1989-30774 | 19890227 |
| AU 616481 | B2 | 19911031 | | |

PRIORITY APPLN. INFO.: GB 1988-4669 A 19880227
WO 1989-GB156 W 19890223

AB A metal surface carries a coating comprising spacer units, e.g. protein mols., to which haptens are linked. These metal surfaces are useful for assays, e.g. in which dissolved haptens in a sample compete with immobilized haptens for

binding to antibodies. The coated metal surfaces are adapted for use in SPR techniques. Also included are immunoassays in which antibodies are immobilized on the metal surface with hapten conjugates reversibly bound to them, displacement of conjugate, as a result of addition of a sample containing the hapten, being monitored by SPR. Thus, a theophylline-7-propionyl-rabbit γ-globulin conjugate was prepared For theophylline determination, a glass microscope slide covered on 1 side by a thin (50-60 nm) film of Ag was immersed for 30-45 min in an 8 μM solution of the conjugate in buffer (10 mM Na phosphate, pH 7.4). The coated slide was then immersed for 30 min in a solution of 5 μM rabbit γ-globulin solution in the same buffer to block residual binding sites on the metal surface. The slide was incubated overnight in a solution of theophylline antiserum (raised in a rabbit against a theophylline-8- butyryl-bovine serum albumin conjugate, essentially as described by T. Nishikawa, et al. (1984)) diluted 1:500 in buffer (50 mM Na phosphate/0.154 M NaCl, pH 7.4, called PBS) which also contained 0.1% ovalbumin. The slide was then rinsed twice in PBS buffer containing 0.05% Tween 20, and twice in PBS, and stored until use in PBS. For use, the non-silvered surface was cleaned with isopropanol and the SPR properties of the slide were determined before and after exposure to theophylline. A graph of SPR reflectivity vs. time, showing results obtained on theophylline determination is presented.

L10 ANSWER 40 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1989:632664 CAPLUS Full-text
DOCUMENT NUMBER: 111:232664
ORIGINAL REFERENCE NO.: 111:38649a,38652a
TITLE: The stereochemical course of the Biltz reaction
AUTHOR(S): Mergen, F.; Poupaert, J. H.; De Keyser, J. L.; Dumont, P.
CORPORATE SOURCE: Med. Fak. Kathol., Univ. Lowen, Brussels, 1200, Belg.
SOURCE: Pharmazie (1989), 44(2), 110-12
CODEN: PHARAT; ISSN: 0031-7144
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 111:232664
GI



I

AB The mechanism of the Biltz synthesis of phenytoin (I) has been investigated by chromatog. (HPLC) and spectroscopy (13C- and 15N-NMR) with special emphasis on the stereochem. course of the reaction of urea and benzil. The resulting data allowed the development of novel approaches in the synthesis of I derivs.; in this connection, phase-transfer catalysis proved to be extremely useful in terms of yield and selectivity.

L10 ANSWER 41 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1989:484010 CAPLUS Full-text
DOCUMENT NUMBER: 111:84010

ORIGINAL REFERENCE NO.: 111:14037a,14040a
TITLE: Low-melting phenytoin prodrugs: in vitro and in vivo correlations
AUTHOR(S): Martodihardjo, Suwaldi
CORPORATE SOURCE: Univ. Kansas, Lawrence, KS, USA
SOURCE: (1988) 248 pp. Avail.: Univ. Microfilms Int., Order No. DA8903134
From: Diss. Abstr. Int. B 1989, 49(11), 4831
DOCUMENT TYPE: Dissertation
LANGUAGE: English
AB Unavailable

L10 ANSWER 42 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1989:165383 CAPLUS Full-text
DOCUMENT NUMBER: 110:165383
ORIGINAL REFERENCE NO.: 110:27197a,27200a
TITLE: Enzyme-enhanced electrochemical immunoassay for phenytoin
AUTHOR(S): Umana, Mirtha; Waller, Jess; Wani, Mansukh; Whisnant, Carol; Cook, Edgar
CORPORATE SOURCE: Res. Triangle Inst., Research Triangle Park, NC, 27709-2194, USA
SOURCE: Journal of Research of the National Institute of Standards and Technology (1988), 93(6), 659-61
CODEN: JRITEF; ISSN: 1044-677X
DOCUMENT TYPE: Journal
LANGUAGE: English
AB An enzyme-enhanced electrochem. immunoassay for phenytoin is described. This paper describes the optimum conditions for the assay. This paper also describes preliminary results on the electron-transfer mediation of ferrocene derivs. to polypyrrole-immobilized glucose oxidase (GOx). The goal of these expts. is to couple the polypyrrole-immobilized GOx to the ferrocene diphenylhydantoin system to produce a reagentless electrochem. immunoassay sensor, for easy and time-saving detns.

L10 ANSWER 43 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:37727 CAPLUS Full-text
DOCUMENT NUMBER: 108:37727
ORIGINAL REFERENCE NO.: 108:6311a,6314a
TITLE: Spirohydantoin aldose reductase inhibitors
AUTHOR(S): Sarges, Reinhard; Schnur, Rodney C.; Belletire, John L.; Peterson, Michael J.
CORPORATE SOURCE: Pfizer Cent. Res., Groton, CT, 06340, USA
SOURCE: Journal of Medicinal Chemistry (1988), 31(1), 230-43
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 108:37727
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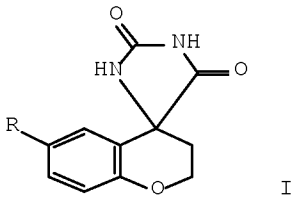
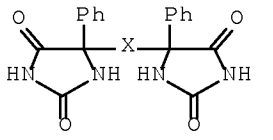


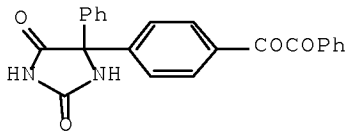
I

AB Sorbitol formation from glucose, catalyzed by aldose reductase, is believed to play a role in the development of certain chronic complications of diabetes mellitus. Spiro hydantoins derived from five- and six-membered ketones fused to an aromatic ring or ring system were prepd by Bucherer-Bergs cyclocondensation with KCN and (NH4)2CO3, and were tested for inhibition of aldose reductase isolated from calf lens. In vivo these compds. are potent inhibitors of sorbitol formation in sciatic nerves of streptozotocinized rats. Optimum in vivo activity is reached in spiro hydantoins I (R = F, Cl, Br). In I (R = F), the activity resides exclusively in the 4S isomer. This compound is currently being used to test, in humans, the value of aldose reductase inhibitors in the therapy of diabetic complications.

L10 ANSWER 44 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1987:101551 CAPLUS Full-text
DOCUMENT NUMBER: 106:101551
ORIGINAL REFERENCE NO.: 106:16619a,16622a
TITLE: Reaction of bis-α-diketones with urea in alkaline media
AUTHOR(S): Savchenko, T. I.; Yatsimirskii, A. K.
CORPORATE SOURCE: Politekh. Inst., Tomsk, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1986), 22(6), 1241-6
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 106:101551
GI



II

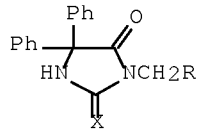


III

AB Rate consts. were detd. for the cyclization of PhCOCOXCOCOPh (I; X = 4,4'-biphenylylene, 4,4'-oxydi-p-phenylene, 4-C6H4C.tplbond.CC6H4-4, etc.) with urea to give bishydantoins (II), and a linear Hammett relation yielded ρ = 1.13. Steric effects were more important than electronic effects in governing the reactivity of I. The reaction of I (X = p-phenylene) with urea gave III.

L10 ANSWER 45 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1986:435320 CAPLUS Full-text
DOCUMENT NUMBER: 105:35320

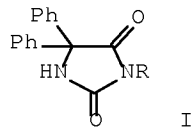
ORIGINAL REFERENCE NO.: 105:5693a,5696a
TITLE: Pharmacological properties of 3-aminoalkyl and amide derivatives of 5,5-diphenylhydantoin
AUTHOR(S): Kiec-Kononowicz, Katarzyna; Stypula, Ewa; Krupinska, Jolanta; Cebo, Barbara
CORPORATE SOURCE: Dep. Pharm. Chem., Med. Acad., Krakow, 31-065, Pol.
SOURCE: Polish Journal of Pharmacology and Pharmacy (1985), 37(5), 693-9
CODEN: PJPPAA; ISSN: 0301-0244
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB The title compds. I (R = alkyleneheterocycles, CONHC6H4CO2H-4, etc; X = O, S) were prepared and evaluated for pharmacol. activity in animal models. In general, the compds. given in a dose of 50 mg/kg, did not affect cardiac bioelec. activity and, in contrast to diphenylhydantoin did not possess the antiarrhythmic properties and did not protect against pentetrazol seizures I(R = CONHC6H4CO2Et-4; X = O) [80688-82-0] showed weak antiarrhythmic and antiseizure activity.

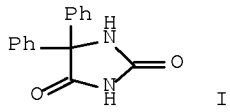
L10 ANSWER 46 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1985:471246 CAPLUS Full-text
DOCUMENT NUMBER: 103:71246
ORIGINAL REFERENCE NO.: 103:11465a,11468a
TITLE: Reactions of 5,5-diphenylhydantoin and its 3-N-carboxylates with hydrazine and 2-morpholinoethylamine
AUTHOR(S): Kiec-Kononowicz, Katarzyna; Zejc, Alfred; Byrtus, Hanna
CORPORATE SOURCE: Dep. Pharm. Chem., Sch. Med., Krakow, 31065, Pol.
SOURCE: Polish Journal of Chemistry (1984), 58(4-5-6), 585-91
CODEN: PJCHDQ; ISSN: 0137-5083
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 103:71246
GI



I

AB Treating hydantoin I (R = CH2CO2Et) (II) with a 5-fold excess of N2H4·H2O 4 h at 130-140° gave 56% I (R = NH2) characterized by its Schiff bases with Me2CO and p-O2NC6H4CHO. Similarly, II treated with N2H4·H2O in refluxing EtOH 4 h gave 62% I (R = CH2CONHNH2) which was also converted to its hydrazide-hydrazones. Treating I (R = CO2Et) with N2H4·H2O gave 86% I (R = H) (III) which with N2H4·H2O gave I (R = NH2). Treating III with 2-morpholinoethylamine (IV) gave 68% I (R = 2-morpholinoethyl). Addnl. obtained were I (R = CH2CH2CO2Et) and its amide with IV, and the amide of I (R = CH2CO2Et).

L10 ANSWER 47 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1985:78766 CAPLUS Full-text
DOCUMENT NUMBER: 102:78766
ORIGINAL REFERENCE NO.: 102:12349a,12352a
TITLE: Phase-transfer catalysis by poly(ethyleneglycol) 600 in the Biltz synthesis of phenytoin.
AUTHOR(S): Poupaert, Jacques H.; De Keyser, Jean Luc; Vandervorst, Daniel; Dumont, Pierre
CORPORATE SOURCE: Brussels, B-1200, Belg.
SOURCE: Bulletin des Societes Chimiques Belges (1984), 93(6), 493-5
CODEN: BSCBAG; ISSN: 0037-9646
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:78766
GI



I

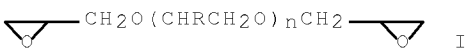
AB A reinvestigation of the Biltz synthesis of phenytoin (I) from benzil and urea was undertaken to selectively produce I instead of a mixture of I and the glycoluryl derivative This was accomplished by carrying out the reaction in a two-phase system (BuOH-H2O) and in the presence of a phase-transfer catalyst [poly(ethyleneglycol) 600]. Under these conditions, 87-93% I was obtained. This approach was also superior to one-phase conditions for the synthesis of other hydantoin derivs.

L10 ANSWER 48 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1985:32235 CAPLUS Full-text
DOCUMENT NUMBER: 102:32235
ORIGINAL REFERENCE NO.: 102:5117a,5120a
TITLE: Pharmaceutical complexes with cyclodextrin and glycol diglycidyl ether polymers
PATENT ASSIGNEE(S): Mitsubishi Petrochemical Co., Ltd., Japan; Mitsubishi Yuka Pharmaceutical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| JP 59164728 | A | 19840917 | JP 1983-38473 | 19830309 |

PRIORITY APPLN. INFO.: JP 1983-38473 19830309

GI



I

AB Insol. or barely-sol. drugs are treated with reaction products of I (R = H or Me; n = 1-10) and cyclodextrin to give complexes that are soluble in H2O. Thus, soluble cyclodextrin-polymers were prepared by treating β-cyclodextrin with propylene glycol diglycidyl ether and polymerizing This product was treated with insol. drugs such as phenytoin and indomethacin to give soluble complexes.

L10 ANSWER 49 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:616279 CAPLUS Full-text

DOCUMENT NUMBER: 101:216279

ORIGINAL REFERENCE NO.: 101:32715a,32718a

TITLE: Phenytoin prodrugs. IV: Hydrolysis of various 3-(hydroxymethyl)phenytoin esters

AUTHOR(S): Varia, S. A.; Schuller, S.; Stella, V. J.

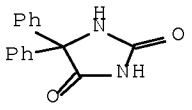
CORPORATE SOURCE: Dep. Pharm. Chem., Univ. Kansas, Lawrence, KS, 66045, USA

SOURCE: Journal of Pharmaceutical Sciences (1984), 73(8), 1074-80
CODEN: JPMSAE; ISSN: 0022-3549

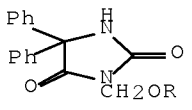
DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I



II, R=COCH2NMe2 ═ MeSO3H
III, R=COCH2CH2NEt2
IV, R=COCH2CH2NMe2 ═ MeSO3H
V, R=PO3Na2

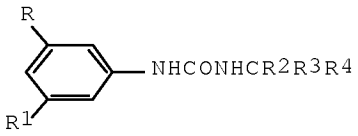
AB The aq. chem. stability of various bioreversible derivs. or prodrugs of phenytoin (I) [57-41-0], a poorly water-soluble and erratically absorbed drug after both oral and i.m. parenteral dosing, was evaluated. This study, together with assessments of other physicochem. properties including cleavage in the presence of various animal tissues and anticonvulsant activity in mice, helped identify a number of promising candidate prodrugs. II [71919-15-8], III [92780-92-2], and IV [92135-00-7] were identified as potential orally and perhaps parenterally useful prodrugs, while V [92134-98-0] appears to be ideally suited as a parenteral form of phenytoin.

L10 ANSWER 50 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN

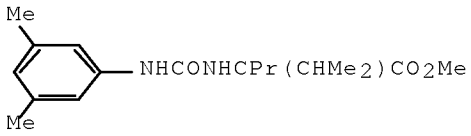
ACCESSION NUMBER: 1984:490608 CAPLUS Full-text
DOCUMENT NUMBER: 101:90608
ORIGINAL REFERENCE NO.: 101:13879a,13882a
TITLE: Urea derivatives and their use
INVENTOR(S): Stransky, Werner; Schroeder, Ludwig; Mengel, Rudolf; Lust, Sigmund; Linden, Gerbert
PATENT ASSIGNEE(S): Celamerck G.m.b.H. und Co. K.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 16 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| DE 3236626 | A1 | 19840405 | DE 1982-3236626 | 19821004 |

PRIORITY APPLN. INFO.: DE 1982-3236626 19821004
OTHER SOURCE(S): CASREACT 101:90608; MARPAT 101:90608
GI



I



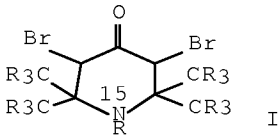
II

AB Aryl(carboxyalkyl)ureas and their derivs. (I) (R, R1 = CF3, halo, C1-4 alkyl, alkoxy; R2, R3 = C1-4 alkyl, alkenyl, C3-6 cycloalkyl, aryl, benzyl; R4 = H, C1-20 alkyl, alkenyl, alkoxyalkyl, etc.) were prepared as herbicides (no data). Thus, PrC(CHMe2)(NH2)CO2Me and 3,5-Me2C6H3NCO in THF gave 78% urea II.

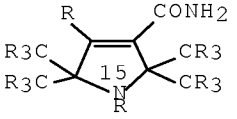
L10 ANSWER 51 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1984:114425 CAPLUS Full-text
DOCUMENT NUMBER: 100:114425
ORIGINAL REFERENCE NO.: 100:17249a,17252a
TITLE: Radioimmunoassay of diphenylhydantoin
AUTHOR(S): Wu, Jianzhong; Jia, Liguo; Zhu, Yanzhen
CORPORATE SOURCE: Beijing Inst. Neurosurg., Beijing, Peop. Rep. China
SOURCE: Zhonghua Yixue Jianyan Zazhi (1983), 6(2), 65-7
CODEN: CHCCDO; ISSN: 0253-973X
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB Diphenylhydantoin (DPH) [57-41-0] was detd. in human blood serum by a RIA which uses rabbit antiserum to the immunogen DPH-bovine serum albumin and 125I-labeled DPH. The RIA for DPH was accurate, precise, and showed average recovery of 99.7% in conventionally used dosages; in addition, this RIA was sensitive (lowest limit 0.5 ng) and specific (did not cross-react with other therapeutic drugs, e.g. valium) with good reproducibility (intra- and interassay relative standard deviation 3.8-6.7 and 14%, resp.). The RIA required only 20 μL blood and could be used directly for DPH determination in other body fluids, including saliva and cerebrospinal fluids. The salivary level of DPH determined by this RIA correlated well with the serum DPH level. Apparently, this RIA is useful in monitoring of DPH in therapy of epileptics.

L10 ANSWER 52 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1984:22537 CAPLUS Full-text
DOCUMENT NUMBER: 100:22537
ORIGINAL REFERENCE NO.: 100:3541a,3544a
TITLE: Application of spin labeling to drug assays. III. 2,2,5,5-tetramethylpyrroline-15N,d13-1-oxyl-3-carboxylic acid coupled to phenytoin
AUTHOR(S): Yost, Yul; Polnaszek, Carl F.; Holtzman, Jordan L.
CORPORATE SOURCE: Res. Serv., VA Med. Cent., Minneapolis, MN, 55417, USA
SOURCE: Journal of Labelled Compounds and Radiopharmaceuticals (1983), 20(6), 707-17
CODEN: JLCRD4; ISSN: 0362-4803
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



II

AB Cycloaddn. reaction of [(R3C)2C:CR]2CO (R = H, D) with 15NH3 and 15ND3 followed by bromination gave the piperidines I (R = H, D). Ring contraction of I on treatment with concentrated NH4OH for 2 h gave pyrrolidines II which on oxidation with H2O2 gave the corresponding nitroxides. Basic hydrolysis of the doubly labeled nitroxide gave 2,2,5,5-tetramethyl-1- oxylpyrroline-3-carboxylic -15N-d13, -15N-d12, and -15N-d11 acid. When coupled to phenytoin these gave a spin-labeled drug of high sensitivity for detection by ESR.

L10 ANSWER 53 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1983:609278 CAPLUS Full-text
DOCUMENT NUMBER: 99:209278
ORIGINAL REFERENCE NO.: 99:32141a,32144a
TITLE: Assay method
INVENTOR(S): Allen, Gerald John
PATENT ASSIGNEE(S): Amersham International PLC, UK
SOURCE: Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 92344 | A1 | 19831026 | EP 1983-301943 | 19830406 |
| R: DE, FR, GB | | | | |
| JP 58190762 | A | 19831107 | JP 1983-66281 | 19830414 |
| PRIORITY APPLN. INFO.: | | | GB 1982-10928 A | 19820415 |

AB Assays for analytes (esp. antigens) are described which employ a specific binding partner for the analyte (especially antibodies), a fluorescent compound-analyte conjugate, and solid particles which have a material which is

not a member of the binding pair but which controls the extent of binding of the labeled derivative The solid particles are preferably of C, either coated with albumin or carrying a receptor for the binding partner. The albumin coating acts as a mol. sieve to accept labeled analytes but not antiserums and complexes thereof. For example, phenytoin amine was determined with a phenytoin-fluorescein label, antiserum, and albumin-coated charcoal. Fluorescence was measured at 490 nm excitation and 520 nm emission. Serum phenytoin amine was determined in the range 0-100 μg/mL.

L10 ANSWER 54 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1983:435662 CAPLUS Full-text
DOCUMENT NUMBER: 99:35662
ORIGINAL REFERENCE NO.: 99:5573a,5576a
TITLE: Fluoroimmunoassay system
INVENTOR(S): Hendrix, John L.
PATENT ASSIGNEE(S): Bio-Diagnostics, Inc., USA
SOURCE: Eur. Pat. Appl., 60 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 71991 | A2 | 19830216 | EP 1982-107102 | 19820806 |
| EP 71991 | A3 | 19830907 | | |
| EP 71991 | B1 | 19860514 | | |
| R: AT, DE, FR, GB, IT | | | | |
| CA 1186621 | A1 | 19850507 | CA 1982-408817 | 19820805 |
| AT 19828 | T | 19860515 | AT 1982-107102 | 19820806 |
| AU 8287024 | A | 19830512 | AU 1982-87024 | 19820810 |
| AU 565418 | B2 | 19870917 | | |
| JP 58086459 | A | 19830524 | JP 1982-139112 | 19820810 |
| JP 03079665 | B | 19911219 | | |
| AU 8774987 | A | 19871022 | AU 1987-74987 | 19870630 |
| PRIORITY APPLN. INFO.: | | | US 1981-291793 A | 19810810 |
| | | | EP 1982-107102 A | 19820806 |

AB An automated computer-controlled app. and improved reagent for fluoroimmunoassays are described in which the analyte (e.g., antibody, antigen, hormone, hapten, virus, drug) is conjugated to a fluorescent label that has a relatively high Stokes shift (not <150 nm) and fluoresces at wavelengths longer than those of autofluorescing substances in patient-serum samples (e.g., chlorophylls or porphyrins). The apparatus is relatively inexpensive, has simple optics, and includes an excitation light source, fiber optics, photodetectors, an analog-to-digital converter, and a display. The excitation light source is placed directly above the sample, such as a well in a microliter plate, and the light sensors are placed directly below the well. Thus, bacteriochlorophyllide b was purified from Rhodopseudomonas viridis by TLC and reversed-phase high-performance liquid chromatog., conjugated to T4 by using iso-Bu chloroformate in a solution of triethylamine and dioxane, and used for the determination of T4 in serum by an immunoassay procedure in anti-T4-coated test tubes.

L10 ANSWER 55 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1983:122427 CAPLUS Full-text
DOCUMENT NUMBER: 98:122427
ORIGINAL REFERENCE NO.: 98:18605a,18608a

TITLE: Stabilization of glucose oxidase apoenzyme
INVENTOR(S): Rupchock, Patricia A.; Tyhach, Richard J.
PATENT ASSIGNEE(S): Miles Laboratories, Inc. , USA
SOURCE: U.S., 17 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4366243 | A | 19821228 | US 1981-255310 | 19810417 |
| PRIORITY APPLN. INFO.: | | | US 1981-255310 | 19810417 |

AB Glucose oxidase apoenzyme is stabilized by poly(vinyl alc.) and serum albumin for ligand binding assays. The stabilized apoenzyme can be incorporated into test strips for immunoassays. In such assays an FAD-antigen conjugate is the label, and FAD-antigen conjugate which is not bound to the antibody is available for glucose oxidase apoenzyme activation. For example, test strips were prepared for dinitrophenyl caproate immunoassay which contained buffer, a glucose oxidase detection system, apoglucose oxidase, dinitrophenol antibody, and dinitrophenol-FAD conjugate. Inclusion of poly(vinyl alc.) and albumin increased the heat stability of the test strips. Test strips for theophylline and phenytoin are also described.

L10 ANSWER 56 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1983:68454 CAPLUS Full-text
DOCUMENT NUMBER: 98:68454
ORIGINAL REFERENCE NO.: 98:10421a,10424a
TITLE: Homogeneous specific binding assay test device having a copolymer enhancing substance
INVENTOR(S): Tabb, David L.; Tyhach, Richard J.
PATENT ASSIGNEE(S): Miles Laboratories, Inc. , USA
SOURCE: U.S., 15 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4362697 | A | 19821207 | US 1981-255759 | 19810420 |
| PRIORITY APPLN. INFO.: | | | US 1981-255759 | 19810420 |
| OTHER SOURCE(S): | MARPAT 98:68454 | | | |

AB Test strips are described for ligand detn. by homogeneous specific binding assays with reflection spectrometric detection. The test strips are impregnated with the appropriate reagents and an enhancer substance (e.g. Gafquat). For example, N-(2,4-dinitrophenyl)-δ-aminocaproic acid was determined by test strips impregnated with apoglucose oxidase, 2,4-DNP-FAD conjugate, antibody, and a glucose oxidase detection reagents. This system responded to 2,4-DNP by exhibiting color due to the activation of apoglucose oxidase by the 2,4-DNP-FAD conjugate. The presence of Gafquat 734 markedly improved the color response. Theophylline and phenytoin were also determined by the title system.

L10 ANSWER 57 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1982:466393 CAPLUS Full-text

DOCUMENT NUMBER: 97:66393
ORIGINAL REFERENCE NO.: 97:10983a,10986a
TITLE: Fluorescent reagent and method for determining immunofluorescence.
INVENTOR(S): Tsay, Yuh Geng; Chen, Janet H.; Palmer, Richard J.
PATENT ASSIGNEE(S): International Diagnostic Technology, Inc., USA
SOURCE: Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 47459 | A2 | 19820317 | EP 1981-106776 | 19810829 |
| EP 47459 | A3 | 19820324 | | |
| EP 47459 | B1 | 19841121 | | |
| R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE | | | | |
| AT 10399 | T | 19841215 | AT 1981-106776 | 19810829 |
| CA 1172560 | A1 | 19840814 | CA 1981-385220 | 19810904 |
| DK 8103946 | A | 19820309 | DK 1981-3946 | 19810907 |
| FI 8102771 | A | 19820309 | FI 1981-2771 | 19810907 |
| FI 72394 | B | 19870130 | | |
| FI 72394 | C | 19870511 | | |
| NO 8103029 | A | 19820309 | NO 1981-3029 | 19810907 |
| NO 155516 | B | 19861229 | | |
| JP 57077963 | A | 19820515 | JP 1981-140808 | 19810907 |
| PRIORITY APPLN. INFO.: | | | US 1980-185235 A | 19800908 |
| | | | EP 1981-106776 A | 19810829 |

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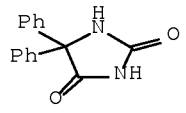



I

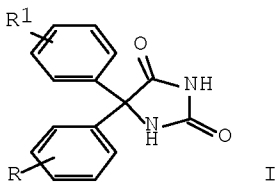
AB Fluorescent diagnostic reagents are prepd. which contain a hydrophobic hapten, a hydrophilic compound such as an aminoglycoside, peptide, protein, or polyacrylamide hydrazine [30601-03-7], and a hydrophobic fluorescent compound such as a derivative of fluorescein [2321-07-5], umbelliferone [93-35-6], or fluorescamine [38183-12-9]. The hydrophobic hapten and the hydrophobic fluorescent compound are both bound to the hydrophilic compound but separated from each other. The reagents are used in the solid-phase fluorescence immunoassay of e.g. diphenylhydantoin (I) [57-41-0], phenobarbital [50-06-6], and primidone [125-33-7] in blood serum and eliminate the disadvantages of previously used reagents. Thus, for the determination of the hydrophobic compound I, a reagent was prepared by coupling a carboxylated derivative of I and FITC [27072-45-3] with the hydrophilic compound gentamicin [1403-66-3]. The resulting hydrophilic conjugate has increased water solubility, less susceptibility to fluorescence quenching by albumin and other serum proteins, and improved antigenicity.

L10 ANSWER 58 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1982:104166 CAPLUS Full-text

DOCUMENT NUMBER: 96:104166
ORIGINAL REFERENCE NO.: 96:17109a,17112a
TITLE: The synthesis of some carbon-11-labeled antiepileptic drugs with potential utility as radiopharmaceuticals: hydantoins and barbiturates
AUTHOR(S): Roeda, D.; Westera, G.
CORPORATE SOURCE: Dep. Org. Chem., Vrije Univ., Amsterdam, 1081 HV, Neth.
SOURCE: International Journal of Applied Radiation and Isotopes (1981), 32(11), 843-5
CODEN: IJARAY; ISSN: 0020-708X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB 11C-labeled phenytoin and 5-ethyl-5-phenylhydantoin were prepd. using 11COCl2 as the starting material. 11C-urea was used to produce 11C-phenobarbital and 11C-barbital. The methods developed are suitable for automation in a lead shielded cell.

L10 ANSWER 59 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1981:417983 CAPLUS Full-text
DOCUMENT NUMBER: 95:17983
ORIGINAL REFERENCE NO.: 95:3021a,3024a
TITLE: A nonmetabolized analog of phenytoin
AUTHOR(S): Henderson, James D.; Dayton, Peter G.; Israili, Zafar H.; Mandell, Leon
CORPORATE SOURCE: Dep. Med., Emory Univ., Atlanta, GA, 30322, USA
SOURCE: Journal of Medicinal Chemistry (1981), 24(7), 843-7
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

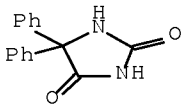


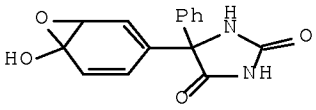

I

AB Nine 5,5-diphenylhydantoin analogs I (R = m- or p-CF3; R1 = H or m- or p-Me or CF3) were synthesized and tested for anticonvulsant activity in mice. None of the I had any anticonvulsant activity against elec. or chemical shock at doses of ≤100 mg/kg. 14C-labeled I (R = R1 = m-CF3) (II) [62031-95-2] was synthesized and certain physiochem. properties and the 7-day LD50 (40 mg/kg, i.p.; 100 mg/kg, orally) were determined in mice. II exhibited neurotoxicity at 24 and 48 h after doses of 750 and 1000 mg/kg, but not after a dose of 500 mg/kg. The other 8 analogs did not demonstrate any neurotoxicity ≤4 h after doses of ≤300 mg/kg (i.p.). II was excreted unmetabolized in rat feces (94% in 18 days), with a urinary excretion of <0.5%. The half-life of elimination of II from plasma was 67-72 h in rats and 115 h in mice. Tissue distribution and biliary excretion studies indicated low tissue/plasma ratios due to high plasma binding (97%) and low biliary excretion. Possible explanations for the

lack of metabolism of II are given. Structure activity relations are discussed.

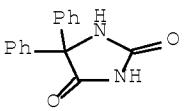
L10 ANSWER 60 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1980:506758 CAPLUS Full-text
DOCUMENT NUMBER: 93:106758
ORIGINAL REFERENCE NO.: 93:16909a,16912a
TITLE: A new metabolite of 5,5-diphenylhydantoin containing an epoxide-ol moiety
AUTHOR(S): Lhoest, G.; Poupaert, J. H.; Claesen, M.
CORPORATE SOURCE: Sch. Pharm., Univ. Cathol. Louvain, Louvain, Belg.
SOURCE: European Journal of Mass Spectrometry in Biochemistry, Medicine and Environmental Research (1980), 1(1), 57-9
CODEN: EJMRDJ; ISSN: 0379-8399
DOCUMENT TYPE: Journal
LANGUAGE: English
GI


I


II

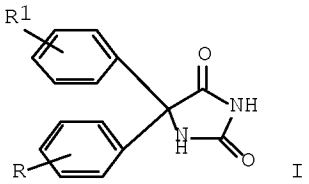
AB Following the feeding of 5,5-diphenylhydantoin (I) [57-41-0] to rats and rabbits, a new metabolite was found in the urine which, by chromatog. and mass spectrometry, was identified as probably being the epoxide-ol structure II [74612-34-3].

L10 ANSWER 61 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1979:420399 CAPLUS Full-text
DOCUMENT NUMBER: 91:20399
ORIGINAL REFERENCE NO.: 91:3413a,3416a
TITLE: Synthesis of 5,5-diphenylhydantoin
AUTHOR(S): Chiang, Hung-Cheh; Li, Shyh-Yuan; Shih, Hsi-Pin
CORPORATE SOURCE: Inst. Chem., Natl. Taiwan Normal Univ., Taipei, Taiwan
SOURCE: Kexue Fazhan Yuekan (1979), 7(1), 21-31
CODEN: KHFKDF; ISSN: 0250-1651
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI


I

AB The title compd. (I) was prepd. most economically by refluxing PhCHO with NaCN, oxidizing benzoin by Larked and Dieger's method, and condensing benzil with urea using modified Klosa's method.

L10 ANSWER 62 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1979:197383 CAPLUS Full-text
DOCUMENT NUMBER: 90:197383
ORIGINAL REFERENCE NO.: 90:31255a,31258a
TITLE: Fluorinated phenytoin anticonvulsant analogs
AUTHOR(S): Nelson, Wendel L.; Kwon, Young G.; Marshall, Gary L.; Hoover, James L.; Pfeffer, Gary T.
CORPORATE SOURCE: Sch. Pharm., Univ. Washington, Seattle, WA, USA
SOURCE: Journal of Pharmaceutical Sciences (1979), 68(1), 115-17
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



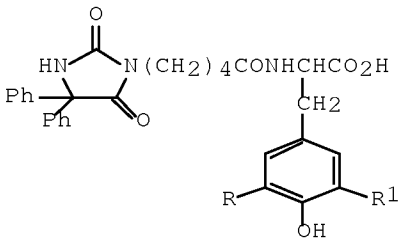
I

AB Of 6 title compds. I (R = F; R1 = H or F) evaluated for anticonvulsant activity 5-(2-fluorophenyl)-5-phenylhydantoin [70028-82-9], showed reasonable activity, being slightly less than 1/2 as potent as phenytoin in the maximum electroshock seizure assay. None of I were active in the s.c. pentylenetetrazol assay. The synthesis of I is given. Structure-activity relations are discussed.

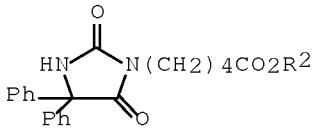
L10 ANSWER 63 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:529930 CAPLUS Full-text
DOCUMENT NUMBER: 89:129930
ORIGINAL REFERENCE NO.: 89:20125a,20128a
TITLE: Labeled 5,5-diphenylhydantoin derivatives for radioimmunoassay
INVENTOR(S): Parsons, George H., Jr.; Eller, Thomas
PATENT ASSIGNEE(S): Baxter Travenol Laboratories, Inc., USA
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 4092479 | A | 19780530 | US 1976-673853 | 19760405 |
| US 4145407 | A | 19790320 | US 1977-835481 | 19770922 |
| PRIORITY APPLN. INFO.: | | | US 1976-673853 A3 | 19760405 |

OTHER SOURCE(S): MARPAT 89:129930
GI



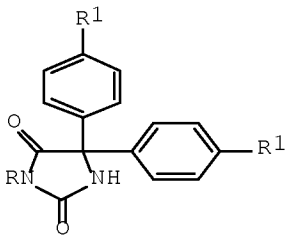
I



III

AB Radioiodinated derivs. of hydantoin I (R = R1 = H) (II), useful in radioimmunoassays, were prepared Thus, 5,5-diphenylhydantoin 3-Na salt was treated with Br(CH2)4CO2Me to give hydantoinvaleric acid ester III (R2 = Me), which was hydrolyzed to III (R2 = H),which was condensed with tyrosine via the ClCO2Et mixed anhydride method to give II. II was iodinated with Na125I to give I (R = 125I, R1 = H; R = R1 = 125I. The radioiodinated derivs. were used in the radioimmunoassay of 5,5-diphenylhydantoin in rabbits.

L10 ANSWER 64 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:151656 CAPLUS Full-text
DOCUMENT NUMBER: 88:151656
ORIGINAL REFERENCE NO.: 88:23885a,23888a
TITLE: Mechanistic studies in the chemistry of urea. Part 2. Reaction with benzil, 4,4'-dimethylbenzil, and 4,4'-dimethoxybenzil
AUTHOR(S): Butler, Anthony R.; Leitch, Elizabeth
CORPORATE SOURCE: Dep. Chem., Univ. St. Andrews, St. Andrews, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1977), (14), 1972-6
CODEN: JCPKBH; ISSN: 0300-9580
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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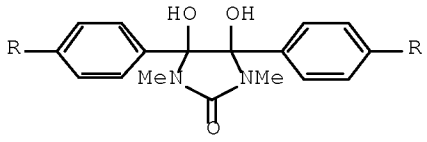

II

AB Urea and N-methylurea with benzil, 4,4'-dimethyl-, and 4,4'-dimethoxybenzil in alkaline conditions gave the hydantoins I (R = H, Me, R1 = H, Me, OMe). The mechanism of the reaction, determined by a kinetic study, is rate-determining attack by the urea anion on benzil, rapid cyclization, and slow rearrangement. The benzils with N,N'-dimethylurea gave the diols II (R = H, Me, OMe).

L10 ANSWER 65 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1975:578887 CAPLUS Full-text
DOCUMENT NUMBER: 83:178887
ORIGINAL REFERENCE NO.: 83:28089a,28092a
TITLE: Chemistry of a novel 5,5-diphenylhydantoin prodrug
AUTHOR(S): Stella, V.; Higuchi, T.; Hussain, A.; Truelove, J.
CORPORATE SOURCE: Dep. Pharm. Chem., Univ. Kansas, Lawrence, KS, USA
SOURCE: ACS Symposium Series (1975), 14(Pro-drugs Novel Drug Delivery Syst., Sypm., 1974), 154-83
CODEN: ACSMC8; ISSN: 0097-6156
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB H2NCONHCPh2CO2CH2CH2N+HEt2 SO4= (I), an acyclic form of 5,5-diphenylhydantoin (II) was prepared by condensing H2NCPh2CO2H with ClCO2Et, treating HO2CCPh2NHCO2Et with SOCl2, reacting the oxazolidinedione III with HOCH2CH2NEt2, treating the resulting H2NCPh2CO2CH2CH2NEt2 with KNCO and H2SO4; I regenerated II in simulated physiological conditions in 7 min, suggesting that enzyme mediation was not necessary.

L10 ANSWER 66 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1975:497130 CAPLUS Full-text
DOCUMENT NUMBER: 83:97130
ORIGINAL REFERENCE NO.: 83:15253a,15256a
TITLE: Hydantoins, thiohydantoins, and glycocyamidines. 41. Reaction of N-cyano amines with 1-(tert-butyl)-3,3-diphenylaziridinone. General method for the synthesis of 1-alkyl-, 1-aralkyl-, and 1-aryl-5,5-diphenyl hydantoins and -glycocyamidines
AUTHOR(S): Simig, G.; Lempert, K.; Tamas, J.; Czira, G.
CORPORATE SOURCE: Res. Group Alkaloid Chem., Hung. Acad. Sci., Budapest, Hung.
SOURCE: Tetrahedron (1975), 31(9), 1195-200
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 83:97130
GI For diagram(s), see printed CA Issue.
AB RNHCN (I, R = Et, Me3C, PhCH2, Ph, p-MeC6H4, m-ClC6H4, p-MeOC6H4) reacted with aziridinone II to give 48-73% RN(CN)CPh2CONHCMe3 (III). Base-catalyzed ring closure of III gave 90-8% glycocyamidines IV. IV (R = Me) was prepared directly by reaction of I (R = Me) with II in C6H6. Acid-catalyzed de-tert-butylation, and deimination combined with de-tert-butylation, of IV gave V and VI, resp. Reaction of II with H2NCN gave (Me3CNHCOCPh2N:)2O (VII) which cyclized to give the corresponding glycocyamidine (VIII). The mass spectra of V (R = p-MeOC6H4, p-HOC6H4, VI (R = p-MeOC6H4, p-HOC6H4), VII, and VIII were discussed.

L10 ANSWER 67 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1974:95826 CAPLUS Full-text
DOCUMENT NUMBER: 80:95826
ORIGINAL REFERENCE NO.: 80:15411a,15414a
TITLE: Hydantoins, thiohydantoins, and glycocyamidines. 39. S-Demethylations and -debenzylations of hydantoin and thiohydantoin derivatives
AUTHOR(S): Domany, Gyorgy; Nyitrai, Jozsef; Zauer, Koroly; Lempert, Karoly; Bekassy, Sandor
CORPORATE SOURCE: Dep. Org. Chem., Tech. Univ., Budapest, Hung.

SOURCE: Acta Chimica Academiae Scientiarum Hungaricae (1974), 80(1), 101-10
CODEN: ACASA2; ISSN: 0001-5407
DOCUMENT TYPE: Journal
LANGUAGE: English
AB S-Methyl derivs. of 5,5-diphenyl-mono- and -dithiohydantoins are demethylated by the hydrogen sulfide anion, thiolate anions or phosphorus pentasulfide. The latter simultaneously converts carbonyl into thiocarbonyl groups. When the α-toluenethiolate anion is used as the demethylating agent, the S-benzyl analogs of the starting substances, formed by exchange thiation, can in several cases be isolated as the intermediates. The S-benzyl groups can also be removed by boiling with benzene in the presence of aluminum chloride. In order to remove N(3)-benzyl groups, more vigorous conditi0ns are required under which, in the presence of a 4-thioxo group, a rearrangement of the retrobenzilic acid type becomes the main reaction.

L10 ANSWER 68 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1972:140814 CAPLUS Full-text
DOCUMENT NUMBER: 76:140814
ORIGINAL REFERENCE NO.: 76:22867a,22870a
TITLE: 5,5-Diphenylhydantoin
INVENTOR(S): Kolbeck, Winfried; Bayerlein, Friedrich
PATENT ASSIGNEE(S): Diamalt A.-G.
SOURCE: U.S., 2 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| US 3646056 | A | 19720229 | US 1970-10317 | 19700210 |
| PRIORITY APPLN. INFO.: | | | US 1970-10317 A | 19700210 |

GI For diagram(s), see printed CA Issue.
AB Treatment of benzoin and NH2CONH2 with aq. KOH and S gave 67-83 5,5-diphenylhydantoin (I).

L10 ANSWER 69 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1971:130340 CAPLUS Full-text
DOCUMENT NUMBER: 74:130340
ORIGINAL REFERENCE NO.: 74:21015a,21018a
TITLE: Lepsiral composition
AUTHOR(S): Zieloff, K.
CORPORATE SOURCE: Berlin-Weissensee, Fed. Rep. Ger.
SOURCE: Zentralblatt fuer Pharmazie, Pharmakotherapie und Laboratoriumsdiagnostik (1970), 109(11), 1179-82
CODEN: ZPPLBF; ISSN: 0049-8696
DOCUMENT TYPE: Journal
LANGUAGE: German
AB Lepsiral (I) is used for treatment of epilepsy. Each tablet consists of 0.25 g primidone(5-phenyl-5-ethylhexahydro-4,6-pyrimidinedione) and of 0.1 g phenytoin(5,5-diphenylhydantoin). Some reports are made about the pharmacol. of I, its clin. use, its side effects, contraindications and dosage.

L10 ANSWER 70 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1968:402905 CAPLUS Full-text

DOCUMENT NUMBER: 69:2905
ORIGINAL REFERENCE NO.: 69:563a,566a
TITLE: Methoxy derivatives of 5,5-diphenylhydantoin and 5-phenyl-5-benzylhydantoin
AUTHOR(S): Novelli, Armando; De Santis, Alberto M.
CORPORATE SOURCE: Univ. Buenos Aires, Buenos Aires, Argent.
SOURCE: Journal of Medicinal Chemistry (1968), 11(1), 176-8
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Various MeO and dioxymethylene derivs. (I) of 5,5-diphenylhydantoin and MeO derivs. (II) of 5-phenyl-5-benzylhydantoin are prepared and evaluated pharmacol. II are prepared by treating the corresponding MeO derivative of deoxybenzoin (prepared by condensing the corresponding phenylacetic acid and methoxybenzene in the presence of P2O5/H3PO4) with (NH4)2CO3/KCN in aqueous HCONMe2. I are prepared by refluxing the appropriate methoxybenzil derivs. (prepared by condensing the appropriate aldehydes and oxidizing the products with CuSO4 in pyridine) with urea in a Na-EtOH solution The anti-convulsant action is lowered when a Ph group is replaced by a benzyl group and the introduction of MeO groups increases the drug efficacy. Increasing the number of MeO groups progressively delays the appearance of the anticonvulsant effect.

L10 ANSWER 71 OF 71 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1968:39508 CAPLUS Full-text
DOCUMENT NUMBER: 68:39508
ORIGINAL REFERENCE NO.: 68:7675a,7678a
TITLE: Organic sulfur compounds. XCV. Base-catalyzed reaction of substituted benzils with urea and thiourea to give glycolurils, hydantoins, imidazolidinones, and dithioglycolurils and thiohydantoins, respectively
AUTHOR(S): Dietz, Werner; Mayer, Roland
CORPORATE SOURCE: Organ. Lab., VEB Fettchem., Karl-Marx-Stadt, Fed. Rep. Ger.
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1968), 37(1-2), 78-90
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: German
GI For diagram(s), see printed CA Issue.
AB Methoxy-, halo-, and methylbenzils reacted with urea in the presence of KOH in EtOH to give the corresponding 3a,6a-diphenylglycolurils (I), 5,5-diphenylydantoins, and 4,5-dihydroxy-4,5-diphenyl-2-imidazolidinones. The reaction of the benzil derivs. with thiourea yielded 3a,6a-diphenyl-2,5-dithioglycolurils and 5,5-diphenyl-2-thiohydantoins. Hydroxybenzils did not react with urea. Methoxybenzils treated with KOH in EtOH in the absence of urea gave methoxybenzoic acids. The mechanism of reaction is discussed.

=> s L2/SPN
2221 L2
2009163 SPN/RL
L11 9 L2/SPN
(L2 (L) SPN/RL)

=> d 1-9 l11

L11 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1300819 CAPLUS Full-text
DN 147:508387
TI An improved process for the preparation of phenytoin sodium
IN Rao, Siripragada Mahender; Ramar, Padmanabhan
PA Orchid Chemicals & Pharmaceuticals Limited, India
SO PCT Int. Appl., 8pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2007129184 | A2 | 20071115 | WO 2007-IB1130 | 20070502 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| | RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | IN 2006CH00806 | A | 20080516 | IN 2006-CH806 | 20060504 |
| PRAI | IN 2006-CH806 | A | 20060504 | | |

L11 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:430714 CAPLUS Full-text
DN 141:12272
TI Modified carbamate-containing prodrugs and methods of synthesizing same
IN Ekwuribe, Nnochiri N.; Riggs-Sauthier, Jennifer; Dyakonov, Tatyana
PA Nobex Corporation, USA
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2004043396 | A2 | 20040527 | WO 2003-US35995 | 20031107 |
| | WO 2004043396 | A3 | 20040812 | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2003285200 | A1 | 20040603 | AU 2003-285200 | 20031107 |
| | US 20040152769 | A1 | 20040805 | US 2003-703647 | 20031107 |
| PRAI | US 2002-424796P | P | 20021109 | | |
| | US 2003-483676P | P | 20030630 | | |
| | WO 2003-US35995 | W | 20031107 | | |

OS MARPAT 141:12272

L11 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:586184 CAPLUS Full-text
DN 122:314499
OREF 122:57197a,57200a
TI Modified synthetic process for phenytoin sodium
AU Yang, Shihao; Li, Liping; Yang, Jianwen
CS Guangdong Medical Coll., Zhanjiang, 524023, Peop. Rep. China
SO Zhongguo Yiyao Gongye Zazhi (1995), 26(1), 4-5
CODEN: ZYGZEA; ISSN: 1001-8255
PB Zhongguo Yiyao Gongye Zazhi Bianjibu
DT Journal
LA Chinese

L11 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1986:65419 CAPLUS Full-text
DN 104:65419
OREF 104:10413a,10416a
TI Ligand determination utilizing an immunoassay monitorable by biotin-containing enzymes, and compositions therefor
IN Bacquet, Cathy A.; Twumasi, Daniel Y.
PA Kallestad Laboratories, Inc., USA
SO U.S., 9 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI US 4550075 | A | 19851029 | US 1983-506889 | 19830622 |
| PRAI US 1983-506889 | | 19830622 | | |

L11 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1983:422468 CAPLUS Full-text
DN 99:22468
OREF 99:3637a,3640a
TI 3-(γ-Amino-β-hydroxypropyl)-5,5-diphenylhydantoin derivatives
IN Zejc, Alfred; Kiec-Kononwicz, Katarzyna
PA Polska Akademia Nauk, Instytut Farmakologii, Pol.
SO Pol., 4 pp.
CODEN: POXXA7
DT Patent
LA Polish
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI PL 114751 | B1 | 19810228 | PL 1977-202530 | 19771130 |
| PRAI PL 1977-202530 | A | 19771130 | | |

OS CASREACT 99:22468

L11 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1983:78068 CAPLUS Full-text
DN 98:78068
OREF 98:11843a,11846a
TI Intravenous solution of sodium diphenyl hydantoin: preparation and stability control
AU Ibanez, S.; Mendoza, Maria L.; Sanchez-Morcillo, J.
CS Serv. Farm., C.S. "Virgen de las Nieves", Granada, Spain
SO Revista de la Asociacion Espanola de Farmaceuticos de Hospitales (1982),

6(2), 133-7
CODEN: RAEHDT; ISSN: 0210-6329
DT Journal
LA Spanish

L11 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1981:417983 CAPLUS Full-text
DN 95:17983
OREF 95:3021a,3024a
TI A nonmetabolized analog of phenytoin
AU Henderson, James D.; Dayton, Peter G.; Israili, Zafar H.; Mandell, Leon
CS Dep. Med., Emory Univ., Atlanta, GA, 30322, USA
SO Journal of Medicinal Chemistry (1981), 24(7), 843-7
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English

L11 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1977:529616 CAPLUS Full-text
DN 87:129616
OREF 87:20589a,20592a
TI Preparation of iodine-131-labeled diphenylhydantoin and its organ distribution in rats
AU Angelberger, Peter; Pils, Peter; Wiesinger, Franz; Tragl, Karl Heinz
CS Oesterr. Studienges. Atomenerg. G.m.b.H., Vienna, Austria
SO Ber. Oesterr. Studienges. Atomenerg. (1977), SGAE Ber. No. 2701, 14 pp.
CODEN: BOAEBM
DT Report
LA English

L11 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1967:442154 CAPLUS Full-text
DN 67:42154
OREF 67:7879a,7882a
TI Acute intoxication due to methsuximide and diphenylhydantoin
AU Schulte, Charles J. A.; Good, Thomas A.
CS Univ. of Maryland Med. School, Baltimore, MD, USA
SO Journal of Pediatrics (St. Louis, MO, United States) (1966), 68(4), 635-7
CODEN: JOPDAB; ISSN: 0022-3476
DT Journal
LA English

=> s L3/SPN
140 L3
2009163 SPN/RL
L12 5 L3/SPN
(L3 (L) SPN/RL)

=> d 1-5 l12

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1213035 CAPLUS Full-text
DN 147:469462
TI Process for preparing fosphenytoin
IN Bhattacharya, Apurba; Bolugoddu, Vijayabhaskar; Vankawala, Pravinchandra Jayantilal; Elati, Chandrasekhar Ravi Ram; Gangula, Srinivas; Lekkala, Amarnath Reddy; Mallemula, Ramakrishna Venkata; Naredla, Anitha; Sigala, Ashok
PA India

SO U.S. Pat. Appl. Publ., 25pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | US 20070249563 | A1 | 20071025 | US 2007-737783 | 20070420 |
| | IN 2006CH00734 | A | 20071228 | IN 2006-CH734 | 20060421 |
| PRAI | IN 2006-CH734 | A | 20060421 | | |
| | IN 2006-CH1031 | A | 20060614 | | |
| | US 2006-820838P | P | 20060731 | | |
| | US 2006-821444P | P | 20060804 | | |

OS CASREACT 147:469462

L12 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:547232 CAPLUS Full-text
DN 143:65482
TI Prodrug compositions including amino acids
IN Hilfinger, John
PA USA
SO U.S. Pat. Appl. Publ., 14 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | US 20050137141 | A1 | 20050623 | US 2004-972729 | 20041025 |
| | US 20070167353 | A1 | 20070719 | US 2007-690528 | 20070323 |
| PRAI | US 2003-514121P | P | 20031024 | | |
| | US 2004-972729 | A2 | 20041025 | | |
| | US 2006-785582P | P | 20060324 | | |

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:738490 CAPLUS Full-text
DN 140:303852
TI preparation of fosphenytoin sodium heptahydrate
IN Wang, Pingbao; Liu, Dengke; Jiang, Qingfeng; Liu, Mo; Ren, Rong; Zhao, Baojuan; Zhao, Jian
PA Tianjin Institute of Pharmacy, State Supervision Bureau for Medicine, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 16 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | CN 1379032 | A | 20021113 | CN 2002-103888 | 20020410 |
| PRAI | CN 2002-103888 | | 20020410 | | |

OS CASREACT 140:303852

L12 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1998:488385 CAPLUS Full-text
DN 129:85936
OREF 129:17633a,17636a
TI Increased Shelf-Life of Fosphenytoin: Solubilization of a Degradant, Phenytoin, through Complexation with (SBE)7m-β-CD
AU Narisawa, Shinji; Stella, Valentino J.

CS Department of Pharmaceutical Chemistry and Higuchi Biosciences Center for Drug Delivery Research, University of Kansas, Lawrence, KS, 66047., USA
SO Journal of Pharmaceutical Sciences (1998), 87(8), 926-930
CODEN: JPMSAE; ISSN: 0022-3549
PB American Chemical Society
DT Journal
LA English
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1984:630412 CAPLUS Full-text
DN 101:230412
OREF 101:34989a,34992a
TI Phenytoin prodrugs. III: Water-soluble prodrugs for oral and/or parenteral use
AU Varia, S. A.; Schuller, S.; Sloan, K. B.; Stella, V. J.
CS Sch. Pharm., Univ. Kansas, Lawrence, KS, 66045, USA
SO Journal of Pharmaceutical Sciences (1984), 73(8), 1068-73
CODEN: JPMSAE; ISSN: 0022-3549
DT Journal
LA English

=> file registry

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 257.70 | 293.78 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -56.00 | -56.00 |

FILE 'REGISTRY' ENTERED AT 12:02:10 ON 14 JUL 2008


Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUL 2008 HIGHEST RN 1033821-28-1
DICTIONARY FILE UPDATES: 13 JUL 2008 HIGHEST RN 1033821-28-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> sel chem l1 and l2 and l3
MULTIPLE L-NUMBERS SPECIFIED

Only one L-number may be specified on this command.

=> s chem l1
MISSING OPERATOR

=> sel chem l1
E1 THROUGH E28 ASSIGNED

=> file uspatall pctfull

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 1.28 | 295.06 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -56.00 |

FILE 'USPATFULL' ENTERED AT 12:03:35 ON 14 JUL 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATOLD' ENTERED AT 12:03:35 ON 14 JUL 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 12:03:35 ON 14 JUL 2008
CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'PCTFULL' ENTERED AT 12:03:35 ON 14 JUL 2008
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=> file registry

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 6.61 | 301.67 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | 0.00 | -56.00 |

FILE 'REGISTRY' ENTERED AT 12:03:54 ON 14 JUL 2008
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provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUL 2008 HIGHEST RN 1033821-28-1
DICTIONARY FILE UPDATES: 13 JUL 2008 HIGHEST RN 1033821-28-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> dup rem l1 l2 l3
DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L1
PROCESSING COMPLETED FOR L2
PROCESSING COMPLETED FOR L3
L13 3 DUP REM L1 L2 L3 (0 DUPLICATES REMOVED)

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 0.46 302.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -56.00

FILE 'CAPLUS' ENTERED AT 12:04:34 ON 14 JUL 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 14 Jul 2008 VOL 149 ISS 3
FILE LAST UPDATED: 13 Jul 2008 (20080713/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/legal/infopolicy.html

=> dup rem l10 l11 l12
PROCESSING COMPLETED FOR L10
PROCESSING COMPLETED FOR L11
PROCESSING COMPLETED FOR L12
L14 83 DUP REM L10 L11 L12 (2 DUPLICATES REMOVED)

=> d l14

L14 ANSWER 1 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2008:91080 CAPLUS Full-text
DN 148:160147
TI Conjugates of psychotropic drugs or GABA agonists with organic acids for
treatment of CNS diseases or disorders

IN  Nudelman, Abraham; Rephaeli, Ada; Gil-Ad, Irit; Weizman, Abraham
PA  Ramot at Tel Aviv University Ltd., Israel; Bar-Ilan University
SO  PCT Int. Appl., 76pp.
    CODEN: PIXXD2
DT  Patent
LA  English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2008010223 | A2 | 20080124 | WO 2007-IL903 | 20070717 |
| | WO 2008010223 | A3 | 20080320 | | |

        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA,
            CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,
            GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG,
            KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,
            MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
            PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,
            TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
        RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
            IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
            GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
            BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

| | | | |
|---|---|---|---|
| PRAI | US 2006-831192P | P | 20060717 |
| | US 2006-831195P | P | 20060717 |

=> d l 14 1-83 ibib abs
'L' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
CLASS ------- IPC, NCL, ECLA, FTERM
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, CLASS

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)

OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):bib

L14  ANSWER 14 OF 83  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2003:271112  CAPLUS Full-text
DN   139:323872
TI   Synthesis and characterization of optically active poly(amide-imide)s with
     hydantoin and thiohydantoin derivatives in the main chain
AU   Faghihi, Khalil; Zamani, Khosrow; Mallakpour, Shadpour
CS   Department of Chemistry, Arak University, Arak, 38156, Iran
SO   Iranian Polymer Journal (2002), 11(5), 339-347
     CODEN: IPJOFF; ISSN: 1026-1265
PB   Iran Polymer Institute
DT   Journal
LA   English
RE.CNT  21    THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14  ANSWER 1 OF 83  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2008:91080  CAPLUS Full-text
DN   148:160147
TI   Conjugates of psychotropic drugs or GABA agonists with organic acids for
     treatment of CNS diseases or disorders
IN   Nudelman, Abraham; Rephaeli, Ada; Gil-Ad, Irit; Weizman, Abraham
PA   Ramot at Tel Aviv University Ltd., Israel; Bar-Ilan University
SO   PCT Int. Appl., 76pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 2
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE

| | | | | | |
|---|---|---|---|---|---|
| PI | WO 2008010223 | A2 | 20080124 | WO 2007-IL903 | 20070717 |
| | WO 2008010223 | A3 | 20080320 | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| | RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA | | | | |
| PRAI | US 2006-831192P | P | 20060717 | | |
| | US 2006-831195P | P | 20060717 | | |

L14 ANSWER 2 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1215841 CAPLUS Full-text
DN 147:455613
TI Halide-free glucosamine-acidic drug complexes
IN Chopdekar, Vilas M.; Torntore, Michael J.
PA JF C Technologies, LLC, USA
SO U.S. Pat. Appl. Publ., 6pp., Cont.-in-part of U.S. Ser. No. 223,686.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

| | | | | | |
|---|---|---|---|---|---|
| PI | US 20070249735 | A1 | 20071025 | US 2007-731294 | 20070331 |
| | US 20070259043 | A1 | 20071108 | US 2005-223686 | 20050909 |
| PRAI | US 2004-611178P | P | 20040917 | | |
| | US 2005-223686 | A2 | 20050909 | | |

L14 ANSWER 3 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1300819 CAPLUS Full-text
DN 147:508387
TI An improved process for the preparation of phenytoin sodium
IN Rao, Siripragada Mahender; Ramar, Padmanabhan
PA Orchid Chemicals & Pharmaceuticals Limited, India
SO PCT Int. Appl., 8pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | | | | | |
|---|---|---|---|---|---|
| PI | WO 2007129184 | A2 | 20071115 | WO 2007-IB1130 | 20070502 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW | | | | |
| | RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, | | | | |

GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

| | | | | | |
|---|---|---|---|---|---|
| | IN 2006CH00806 | A | 20080516 | IN 2006-CH806 | 20060504 |
| PRAI | IN 2006-CH806 | A | 20060504 | | |

L14 ANSWER 4 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1213035 CAPLUS Full-text
DN 147:469462
TI Process for preparing fosphenytoin
IN Bhattacharya, Apurba; Bolugoddu, Vijayabhaskar; Vankawala, Pravinchandra Jayantilal; Elati, Chandrasekhar Ravi Ram; Gangula, Srinivas; Lekkala, Amarnath Reddy; Mallemula, Ramakrishna Venkata; Naredla, Anitha; Sigala, Ashok
PA India
SO U.S. Pat. Appl. Publ., 25pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | US 20070249563 | A1 | 20071025 | US 2007-737783 | 20070420 |
| | IN 2006CH00734 | A | 20071228 | IN 2006-CH734 | 20060421 |
| PRAI | IN 2006-CH734 | A | 20060421 | | |
| | IN 2006-CH1031 | A | 20060614 | | |
| | US 2006-820838P | P | 20060731 | | |
| | US 2006-821444P | P | 20060804 | | |

OS CASREACT 147:469462

L14 ANSWER 5 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:254742 CAPLUS Full-text
DN 147:469270
TI A novel synthesis of some new imidazothiazole and glycocyamidine derivatives and studies on their antimicrobial activities
AU El-Din, Asmaa A. Magd; Roaiah, Hanaa F.; Elsharabasy, Salwa A.; Hassan, Aisha Y.
CS Natural Products Department, National Research Centre, Cairo, Egypt
SO Phosphorus, Sulfur and Silicon and the Related Elements (2007), 182(3), 529-536
CODEN: PSSLEC; ISSN: 1042-6507
PB Taylor & Francis, Inc.
DT Journal
LA English
OS CASREACT 147:469270
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 6 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:1125928 CAPLUS Full-text
DN 146:274284
TI Evaluating the one-pot synthesis of hydantoins
AU Mahmoodi, Nosrat O.; Khodaee, Ziba
CS Department of Chemistry, University of Guilan, Rasht, Iran
SO ARKIVOC (Gainesville, FL, United States) (2007), (3), 29-36
CODEN: AGFUAR
URL: http://www.arkat-usa.org/ARKIVOC/JOURNAL_CONTENT/manuscripts/2007/EA-1914DP%20as%20published%20mainmanuscript.pdf
PB Arkat USA Inc.
DT Journal; (online computer file)
LA English

OS CASREACT 146:274284
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 7 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:547232 CAPLUS Full-text
DN 143:65482
TI Prodrug compositions including amino acids
IN Hilfinger, John
PA USA
SO U.S. Pat. Appl. Publ., 14 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | US 20050137141 | A1 | 20050623 | US 2004-972729 | 20041025 |
| | US 20070167353 | A1 | 20070719 | US 2007-690528 | 20070323 |
| PRAI | US 2003-514121P | P | 20031024 | | |
| | US 2004-972729 | A2 | 20041025 | | |
| | US 2006-785582P | P | 20060324 | | |

L14 ANSWER 8 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:1294782 CAPLUS Full-text
DN 144:350594
TI Synthesis of hydantoin, thiohydantoin and desulfuration of thiohydantoin to hydantoin
AU Dubey, Vijay S.
CS Department of Chemistry, Hislop College, Nagpur, 440 001, India
SO Asian Journal of Chemistry (2005), Volume Date 2006, 18(1), 155-158
CODEN: AJCHEW; ISSN: 0970-7077
PB Asian Journal of Chemistry
DT Journal
LA English
OS CASREACT 144:350594
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 9 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:430714 CAPLUS Full-text
DN 141:12272
TI Modified carbamate-containing prodrugs and methods of synthesizing same
IN Ekwuribe, Nnochiri N.; Riggs-Sauthier, Jennifer; Dyakonov, Tatyana
PA Nobex Corporation, USA
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2004043396 | A2 | 20040527 | WO 2003-US35995 | 20031107 |
| | WO 2004043396 | A3 | 20040812 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

| | | | | | |
|---|---|---|---|---|---|
| | AU 2003285200 | A1 | 20040603 | AU 2003-285200 | 20031107 |
| | US 20040152769 | A1 | 20040805 | US 2003-703647 | 20031107 |
| PRAI | US 2002-424796P | P | 20021109 | | |
| | US 2003-483676P | P | 20030630 | | |
| | WO 2003-US35995 | W | 20031107 | | |

OS MARPAT 141:12272

L14 ANSWER 10 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:281814 CAPLUS Full-text
DN 141:33316
TI Block of human NaV1.5 sodium channels by novel α-hydroxyphenylamide analogues of phenytoin
AU Lenkowski, Paul W.; Ko, Seong-Hoon; Anderson, James D.; Brown, Milton L.; Patel, Manoj K.
CS Department of Chemistry, University of Virginia, Charlottesville, VA, 22904, USA
SO European Journal of Pharmaceutical Sciences (2004), 21(5), 635-644
CODEN: EPSCED; ISSN: 0928-0987
PB Elsevier B.V.
DT Journal
LA English
OS CASREACT 141:33316
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 11 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:570317 CAPLUS Full-text
DN 141:410863
TI One-Pot Synthesis of Phenytoin Analogs
AU Mahmoodi, N. O.; Emadi, S.
CS Organic Research Laboratory, Department of Chemistry, University of Guilan, Rasht, 1914, Iran
SO Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2004), 40(3), 377-382
CODEN: RJOCEQ; ISSN: 1070-4280
PB MAIK Nauka/Interperiodica Publishing
DT Journal
LA English
OS CASREACT 141:410863
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 12 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:91629 CAPLUS Full-text
DN 139:6807
TI A rapid and efficient microwave-assisted synthesis of hydantoins and thiohydantoins
AU Muccioli, Giulio G.; Poupaert, Jacques H.; Wouters, Johan; Norberg, Bernadette; Poppitz, Wolfgang; Scriba, Gerhard K. E.; Lambert, Didier M.
CS Faculte de Medecine, Ecole de Pharmacie, Laboratoire de Chimie pharmaceutique et de Radiopharmacie, Universite catholique de Louvain, UCL-CMFA 7340, Brussels, B-1200, Belg.
SO Tetrahedron (2003), 59(8), 1301-1307
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science Ltd.
DT Journal

LA English
OS CASREACT 139:6807
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 13 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:738490 CAPLUS Full-text
DN 140:303852
TI preparation of fosphenytoin sodium heptahydrate
IN Wang, Pingbao; Liu, Dengke; Jiang, Qingfeng; Liu, Mo; Ren, Rong; Zhao, Baojuan; Zhao, Jian
PA Tianjin Institute of Pharmacy, State Supervision Bureau for Medicine, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 16 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI CN 1379032 | A | 20021113 | CN 2002-103888 | 20020410 |
| PRAI CN 2002-103888 | | 20020410 | | |

OS CASREACT 140:303852

L14 ANSWER 14 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:271112 CAPLUS Full-text
DN 139:323872
TI Synthesis and characterization of optically active poly(amide-imide)s with hydantoin and thiohydantoin derivatives in the main chain
AU Faghihi, Khalil; Zamani, Khosrow; Mallakpour, Shadpour
CS Department of Chemistry, Arak University, Arak, 38156, Iran
SO Iranian Polymer Journal (2002), 11(5), 339-347
CODEN: IPJOFF; ISSN: 1026-1265
PB Iran Polymer Institute
DT Journal
LA English
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 15 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2002:893101 CAPLUS Full-text
DN 138:255591
TI Microwave-assisted rapid synthesis of novel optically active poly(amide-imide)s containing hydantoins and thiohydantoins in main chain
AU Faghihi, Khalil; Zamani, Khosrow; Mirsamie, Azizollah; Reza Sangi, Mohammad
CS Department of Chemistry, Arak University, Arak, 38156, Iran
SO European Polymer Journal (2002), Volume Date 2003, 39(2), 247-254
CODEN: EUPJAG; ISSN: 0014-3057
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 138:255591
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 16 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:708653 CAPLUS Full-text
DN 136:151368
TI Synthesis of hydantocidin and C-2-thioxo-hydantocidin

AU Shiozaki, M.
CS Exploratory Chemistry Research Laboratories, Sankyo Co. Ltd., Shinagawa-ku, Tokyo, 140-8710, Japan
SO Carbohydrate Research (2001), 335(3), 147-150
CODEN: CRBRAT; ISSN: 0008-6215
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 136:151368
RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 17 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1999:412636 CAPLUS Full-text
DN 131:56144
TI Specific binding assay using enzyme inhibitor and anti-inhibitor antibodies
IN Contestable, Paul B.; Daiss, John L.; Groth, Holly L.; Grogan, Elizabeth A.; Snyder, Brian A.
PA Johnson & Johnson Clinical Diagnostics, Inc., USA
SO U.S., 16 pp., Cont. of U.S. Ser. No. 250,980, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI US 5916757 | A | 19990629 | US 1996-683247 | 19960717 |
| PRAI US 1994-250980 | B1 | 19940531 | | |

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 18 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1999:536691 CAPLUS Full-text
DN 131:299402
TI 3-Alkyl-(5,5'-diphenyl)imidazolidinediones as new cannabinoid receptor ligands
AU Kanyonyo, Martial; Govaerts, Sophie J.; Hermans, Emmanuel; Poupaert, Jacques H.; Lambert, Didier M.
CS Unite de Chimie Pharmaceutique et de Radiopharmacie, Universite Catholique de Louvain, Brussels, 1200, Belg.
SO Bioorganic & Medicinal Chemistry Letters (1999), 9(15), 2233-2236
CODEN: BMCLE8; ISSN: 0960-894X
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 19 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1999:639650 CAPLUS Full-text
DN 131:346154
TI The influence of structure and lipophilicity of hydantoin derivatives on anticonvulsant activity
AU Scholl, S.; Koch, A.; Henning, D.; Kempter, G.; Kleinpeter, E.
CS Institut fur Organische Chemie und Strukturanalytik, Universitat Potsdam, Postdam, D-14415, Germany
SO Structural Chemistry (1999), 10(5), 355-366
CODEN: STCHES; ISSN: 1040-0400
PB Kluwer Academic/Plenum Publishers

DT Journal
LA English
RE.CNT 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 20 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1998:527297 CAPLUS Full-text
DN 129:161184
OREF 129:32803a,32806a
TI Preparation of fatty acyl and alkyl derivatives of drugs and agrochemicals
IN Myhren, Finn; Borretzen, Bernt; Dalen, Are; Sandvold, Marit Liland
PA Norsk Hydro Asa, Norway
SO PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 9832718 | A1 | 19980730 | WO 1998-NO21 | 19980123 |
| | W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW | | | | |
| | RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | GB 2321455 | A | 19980729 | GB 1997-1441 | 19970124 |
| | ZA 9800579 | A | 19980723 | ZA 1998-579 | 19980123 |
| | CA 2276694 | A1 | 19980730 | CA 1998-2276694 | 19980123 |
| | CA 2276694 | C | 20070522 | | |
| | AU 9857828 | A | 19980818 | AU 1998-57828 | 19980123 |
| | AU 733370 | B2 | 20010510 | | |
| | EP 977725 | A1 | 20000209 | EP 1998-901593 | 19980123 |
| | EP 977725 | B1 | 20040616 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI | | | | |
| | HU 2000000937 | A2 | 20000928 | HU 2000-937 | 19980123 |
| | HU 2000000937 | A3 | 20010129 | | |
| | HU 225664 | B1 | 20070529 | | |
| | NZ 336724 | A | 20010629 | NZ 1998-336724 | 19980123 |
| | JP 2001522351 | T | 20011113 | JP 1998-531863 | 19980123 |
| | RU 2227794 | C2 | 20040427 | RU 1999-118313 | 19980123 |
| | AT 269292 | T | 20040715 | AT 1998-901593 | 19980123 |
| | ES 2224356 | T3 | 20050301 | ES 1998-901593 | 19980123 |
| | IL 130853 | A | 20050320 | IL 1998-130853 | 19980123 |
| | SK 284803 | B6 | 20051103 | SK 1999-1003 | 19980123 |
| | TW 231209 | B | 20050421 | TW 1998-87103693 | 19980313 |
| | NO 9903563 | A | 19990917 | NO 1999-3563 | 19990721 |
| | US 20010006962 | A1 | 20010705 | US 1999-355111 | 19990927 |
| | US 20030153544 | A1 | 20030814 | US 2002-116358 | 20020405 |
| | US 6762175 | B2 | 20040713 | | |
| | US 20040063677 | A1 | 20040401 | US 2003-662441 | 20030916 |
| PRAI | GB 1997-1441 | A | 19970124 | | |
| | WO 1998-NO21 | W | 19980123 | | |
| | US 1999-355111 | B1 | 19990927 | | |
| | US 2002-116358 | A1 | 20020405 | | |

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 21 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1998:79418 CAPLUS Full-text
DN 128:166998
OREF 128:32909a,32912a
TI System for multiple simultaneous synthesis of small-molecule organic compounds
IN Dewitt, Sheila H. H.; Kiely, John S.; Pavia, Michael R.; Schroeder, Mel C.; Stankovic, Charles J.
PA Warner-Lambert Co., USA
SO U.S., 67 pp., Cont.-in-part of U.S. Ser.5,612,002.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 3

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | US 5714127 | A | 19980203 | US 1995-475559 | 19950607 |
| | US 5324483 | A | 19940628 | US 1993-12557 | 19930202 |
| | US 5324483 | B1 | 19960924 | | |
| | US 5612002 | A | 19970318 | US 1995-430696 | 19950428 |
| | US 5565173 | A | 19961015 | US 1995-461998 | 19950605 |
| | US 5567391 | A | 19961022 | US 1995-464161 | 19950605 |
| | US 5582801 | A | 19961210 | US 1995-463545 | 19950605 |
| | US 5593642 | A | 19970114 | US 1995-461475 | 19950605 |
| | US 5766556 | A | 19980616 | US 1996-777270 | 19961231 |
| PRAI | US 1992-958383 | B2 | 19921008 | | |
| | US 1993-12557 | A3 | 19930202 | | |
| | US 1994-217347 | B1 | 19940324 | | |
| | US 1995-430696 | A2 | 19950428 | | |

RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 22 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1
AN 1998:488385 CAPLUS Full-text
DN 129:85936
OREF 129:17633a,17636a
TI Increased Shelf-Life of Fosphenytoin: Solubilization of a Degradant, Phenytoin, through Complexation with (SBE)7m-β-CD
AU Narisawa, Shinji; Stella, Valentino J.
CS Department of Pharmaceutical Chemistry and Higuchi Biosciences Center for Drug Delivery Research, University of Kansas, Lawrence, KS, 66047., USA
SO Journal of Pharmaceutical Sciences (1998), 87(8), 926-930
CODEN: JPMSAE; ISSN: 0022-3549
PB American Chemical Society
DT Journal
LA English
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 23 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1998:520228 CAPLUS Full-text
DN 129:245090
OREF 129:49905a,49908a
TI Superacid-activated condensation of parabanic acid and derivatives with arenes. A new synthesis of phenytoin and 5,5-diarylhydantoins
AU Klumpp, Douglas A.; Yeung, Ka Yeun; Prakash, G. K. Surya; Olah, George A.
CS Department Chemistry, California State Polytechnic University, Pomona, CA, 91768, USA
SO Synlett (1998), (8), 918-920
CODEN: SYNLES; ISSN: 0936-5214

PB  Georg Thieme Verlag
DT  Journal
LA  English
OS  CASREACT 129:245090

L14  ANSWER 24 OF 83  CAPLUS  COPYRIGHT 2008 ACS on STN
AN  1998:15623  CAPLUS Full-text
DN  128:114966
OREF 128:22545a,22548a
TI  Apparatus and method for solid phase multiple simultaneous synthesis.
IN  Dewitt, Sheila H. H.; Kell, Michael; Pavia, Michael R.; Kiely, John S.; Schroeder, Mel C.; Stankovic, Charles J.; Ware, Steven
PA  Warner-Lambert Co., USA
SO  U.S., 52 pp., Cont.-in-part of U.S. 5,612,002.
    CODEN: USXXAM
DT  Patent
LA  English
FAN.CNT 3

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | US 5702672 | A | 19971230 | US 1995-540512 | 19951010 |
| | US 5324483 | A | 19940628 | US 1993-12557 | 19930202 |
| | US 5324483 | B1 | 19960924 | | |
| | US 5612002 | A | 19970318 | US 1995-430696 | 19950428 |
| | US 5565173 | A | 19961015 | US 1995-461998 | 19950605 |
| | US 5567391 | A | 19961022 | US 1995-464161 | 19950605 |
| | US 5582801 | A | 19961210 | US 1995-463545 | 19950605 |
| | US 5593642 | A | 19970114 | US 1995-461475 | 19950605 |
| | US 5766556 | A | 19980616 | US 1996-777270 | 19961231 |
| PRAI | US 1992-958383 | B2 | 19921008 | | |
| | US 1993-12557 | A3 | 19930202 | | |
| | US 1994-217347 | B3 | 19940324 | | |
| | US 1995-430696 | A2 | 19950428 | | |

L14  ANSWER 25 OF 83  CAPLUS  COPYRIGHT 2008 ACS on STN
AN  1996:694374  CAPLUS Full-text
DN  125:327717
OREF 125:61391a,61394a
TI  A method for the combinatorial synthesis of mixtures of compounds
IN  Becker, Katherine; Dewitt, Sheila Hobbs
PA  Warner-Lambert Company, USA
SO  PCT Int. Appl., 146 pp.
    CODEN: PIXXD2
DT  Patent
LA  English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 9630393 | A1 | 19961003 | WO 1995-US16332 | 19951208 |
| | W: AM, AU, BG, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LT, LV, MD, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, UA, UZ | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| | AU 9644244 | A | 19961016 | AU 1996-44244 | 19951208 |
| PRAI | US 1995-411040 | A | 19950327 | | |
| | WO 1995-US16332 | W | 19951208 | | |

L14  ANSWER 26 OF 83  CAPLUS  COPYRIGHT 2008 ACS on STN
AN  1996:599190  CAPLUS Full-text
DN  125:219625
OREF 125:41079a,41082a

TI Inhibitor and anti-inhibitor monoclonal antibodies specific for horseradish peroxidase
IN Gorman, Kevin M.; Daiss, John L.
PA Johnson & Johnson Clinical Diagnostics, Inc., USA
SO Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | EP 690071 | A2 | 19960103 | EP 1995-303657 | 19950530 |
| | EP 690071 | A3 | 19961016 | | |
| | EP 690071 | B1 | 20001227 | | |
| | R: BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| | US 5650324 | A | 19970722 | US 1994-251496 | 19940531 |
| | CA 2150497 | A1 | 19951201 | CA 1995-2150497 | 19950530 |
| | CA 2150497 | C | 20061017 | | |
| | PT 690071 | T | 20010430 | PT 1995-303657 | 19950530 |
| | ES 2157294 | T3 | 20010816 | ES 1995-303657 | 19950530 |
| | AU 9520409 | A | 19951207 | AU 1995-20409 | 19950531 |
| | JP 08053497 | A | 19960227 | JP 1995-134031 | 19950531 |
| | JP 3745411 | B2 | 20060215 | | |
| | GR 3035547 | T3 | 20010629 | GR 2001-400388 | 20010309 |
| PRAI | US 1994-251496 | A | 19940531 | | |

L14 ANSWER 27 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1996:115666 CAPLUS Full-text
DN 124:260004
OREF 124:48171a,48174a
TI Combinatorial organic synthesis using Parke-Davis's diversomer method
AU DeWitt, Sheila Hobbs; Czarnik, Anthony W.
CS Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, Ann Arbor, MI, 48105, USA
SO Accounts of Chemical Research (1996), 29(3), 114-22
CODEN: ACHRE4; ISSN: 0001-4842
PB American Chemical Society
DT Journal
LA English

L14 ANSWER 28 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:746664 CAPLUS Full-text
DN 123:142970
OREF 123:25449a,25452a
TI Gas/Solid Reactions with Nitrogen Dioxide
AU Kaupp, Gerd; Schmeyers, Jens
CS FB 9-Organic Chemistry I, University of Oldenburg, Oldenburg, D-26111, Germany
SO Journal of Organic Chemistry (1995), 60(17), 5494-503
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 123:142970

L14 ANSWER 29 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:766526 CAPLUS Full-text
DN 123:339894
OREF 123:61003a,61006a
TI Synthesis, structure and properties of 5,5-diphenyl-2,3,5,6-

tetrahydroimidazo[2,1-b]imidazoline-3,6-dione
AU Kiec-Kononowicz, Katarzyna; Karolak-Wojciechowska, Janina; Mrozek, Agnieszka; Posel, Maciej
CS Department of Chemical Technology of Drugs, Collegium Medicum of Jagiellonian University, Krakow, PL 30-688, Pol.
SO Archiv der Pharmazie (Weinheim, Germany) (1995), 328(6), 517-21
CODEN: ARPMAS; ISSN: 0365-6233
PB VCH
DT Journal
LA English
OS CASREACT 123:339894

L14 ANSWER 30 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:586184 CAPLUS Full-text
DN 122:314499
OREF 122:57197a,57200a
TI Modified synthetic process for phenytoin sodium
AU Yang, Shihao; Li, Liping; Yang, Jianwen
CS Guangdong Medical Coll., Zhanjiang, 524023, Peop. Rep. China
SO Zhongguo Yiyao Gongye Zazhi (1995), 26(1), 4-5
CODEN: ZYGZEA; ISSN: 1001-8255
PB Zhongguo Yiyao Gongye Zazhi Bianjibu
DT Journal
LA Chinese

L14 ANSWER 31 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:308615 CAPLUS Full-text
DN 122:106536
OREF 122:20071a,20074a
TI Apparatus and method for multiple simultaneous synthesis of peptides and other organic compounds
IN Cody, Donna Reynolds; Dewitt, Sheila Helen Hobbs; Hodges, John Cooke; Roth, Bruce David; Schroeder, Mel Conrad; Stankovic, Charles John; Moos, Walter Hamilton; Pavia, Michael Raymond; Kiely, John Steven
PA Warner-Lambert Co., USA
SO PCT Int. Appl., 143 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 9408711 | A1 | 19940428 | WO 1993-US9666 | 19931008 |
| | W: AU, CA, CZ, FI, HU, JP, KR, NO, NZ, RU, SK | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| | US 5324483 | A | 19940628 | US 1993-12557 | 19930202 |
| | US 5324483 | B1 | 19960924 | | |
| | AU 9453558 | A | 19940509 | AU 1994-53558 | 19931008 |
| | EP 663856 | A1 | 19950726 | EP 1993-923827 | 19931008 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| | JP 08502482 | T | 19960319 | JP 1993-510171 | 19931008 |
| PRAI | US 1992-958383 | A | 19921008 | | |
| | US 1993-12557 | A | 19930202 | | |
| | WO 1993-US9666 | W | 19931008 | | |

L14 ANSWER 32 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1994:404529 CAPLUS Full-text
DN 121:4529
OREF 121:999a,1002a
TI Labeled drug hapten analogs for immunoassays

IN Danielson, Susan J.; Brummond, Barbara A.; Oenick, Marsha D. B.; Ponticello, Ignazio S.; Hilborn, David A.
PA Eastman Kodak Co., USA
SO U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 712,330, abandoned. CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | US 5298403 | A | 19940329 | US 1992-851439 | 19920316 |
| | CA 2062240 | A1 | 19921208 | CA 1992-2062240 | 19920416 |
| | EP 517326 | A2 | 19921209 | EP 1992-201581 | 19920602 |
| | EP 517326 | A3 | 19930407 | | |
| | EP 517326 | B1 | 20010816 | | |
| | R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE | | | | |
| | AT 204384 | T | 20010915 | AT 1992-201581 | 19920602 |
| | JP 05172814 | A | 19930713 | JP 1992-145980 | 19920605 |
| | JP 3190729 | B2 | 20010723 | | |
| PRAI | US 1991-712330 | B2 | 19910607 | | |
| | US 1992-851439 | A | 19920316 | | |

L14 ANSWER 33 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:441042 CAPLUS Full-text
DN 122:222646
OREF 122:40526h,40527a
TI Dissolution behavior of phenytoin-bile salt complexes prepared by co-grinding
AU Otsuka, Makoto; Matsuda, Yoshihisa
CS Kobe Pharm. Univ., Kobe, 658, Japan
SO Chemical & Pharmaceutical Bulletin (1994), 42(11), 2382-4 CODEN: CPBTAL; ISSN: 0009-2363
PB Pharmaceutical Society of Japan
DT Journal
LA English

L14 ANSWER 34 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1995:137709 CAPLUS Full-text
DN 122:177662
OREF 122:32293a,32296a
TI Phenytoin derivatives as potent σ ligands
AU Hudkins, Robert L.; DeHaven-Hudkins, Diane L.
CS Albany Mol. Res., Albany, NY, 12203, USA
SO Bioorganic & Medicinal Chemistry Letters (1994), 4(18), 2185-8 CODEN: BMCLE8; ISSN: 0960-894X
DT Journal
LA English

L14 ANSWER 35 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1993:656382 CAPLUS Full-text
DN 119:256382
OREF 119:45625a,45628a
TI Phenytoin-lipid conjugates: Chemical, plasma esterase-mediated, and pancreatic lipase-mediated hydrolysis in vitro
AU Scriba, Gerhard K. E.
CS Dep. Pharm. Chem., Univ. Muenster, Muenster, 48149, Germany
SO Pharmaceutical Research (1993), 10(8), 1181-6 CODEN: PHREEB; ISSN: 0724-8741
DT Journal
LA English

L14 ANSWER 36 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1993:617285 CAPLUS Full-text
DN 119:217285
OREF 119:38477a,38480a
TI Phenytoin-lipid conjugates as potential prodrugs of phenytoin
AU Scriba, Gerhard K. E.
CS Dep. Pharm. Chem., Univ. Muenster, Muenster, D-48149, Germany
SO Archiv der Pharmazie (Weinheim, Germany) (1993), 326(8), 477-81
CODEN: ARPMAS; ISSN: 0365-6233
DT Journal
LA English

L14 ANSWER 37 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1994:299113 CAPLUS Full-text
DN 120:299113
OREF 120:52733a,52736a
TI Part 1. Synthetic studies of some unsymmetrically substituted sulfamides and 5,5-diphenylhydantoin. Part 2. Photoinduced generation of glycosyl cations from thioglycosides for possible application in oligosaccharide synthesis
AU Bandara, Nayanie Champika
CS Univ. New Orleans, New Orleans, LA, USA
SO (1992) 127 pp. Avail.: Univ. Microfilms Int., Order No. DA9230592
From: Diss. Abstr. Int. B 1992, 53(6), 2865
DT Dissertation
LA English

L14 ANSWER 38 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1992:633927 CAPLUS Full-text
DN 117:233927
OREF 117:40459a,40462a
TI A convenient preparation of symmetrical and unsymmetrical 1,2-diketones: application to fluorinated phenytoin synthesis
AU Page, Philip C. Bulman; Graham, Andrew E.; Park, B. Kevin
CS Dep. Chem., Univ. Liverpool, Liverpool, L69 3BX, UK
SO Tetrahedron (1992), 48(35), 7265-74
CODEN: TETRAB; ISSN: 0040-4020
DT Journal
LA English
OS CASREACT 117:233927

L14 ANSWER 39 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1992:187524 CAPLUS Full-text
DN 116:187524
OREF 116:31511a,31514a
TI Analysis of a clinically important interaction between phenytonin and Shankhapushpi, and Ayurvedic preparation
AU Dandekar, U. P.; Chandra, R. S.; Dalvi, S. S.; Joshi, M. V.; Gokhale, P. C.; Sharma, A. V.; Shah, P. U.; Kshirsagar, N. A.
CS Dep. Pharmacol. Clin. Pharmacol., Seth Gordhandas Sunderdas Med. Coll., Bombay, 400-012, India
SO Journal of Ethnopharmacology (1992), 35(3), 285-8
CODEN: JOETD7; ISSN: 0378-8741
DT Journal
LA English

L14 ANSWER 40 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1993:260830 CAPLUS Full-text
DN 118:260830

OREF 118:45219a,45222a
TI Optimization of phenytoin preparation
AU Ponte, C. I. R. V.; Bacha, C. T. M.; Seixas, L. M. J.; Todeschini, A. R.; Cunha, A.; Carvalho, E.
CS Fac. Farm., UFRGS, Brazil
SO Revista Brasileira de Farmacia (1992), 73(1), 11-12
CODEN: RBFAAH; ISSN: 0370-372X
DT Journal
LA Portuguese

L14 ANSWER 41 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:679900 CAPLUS Full-text
DN 115:279900
OREF 115:47563a,47566a
TI Reactions of carbonic acid diamides with α-hydroxy ketones and α-diketones. Part 4. Reactions of substituted biguanides with benzil in ethanol under the influence of sodium ethanolate
AU Schramm, H. W.
CS Inst. Pharm. Chem., Karl-Franzens-Univ., Graz, A-8010, Austria
SO Scientia Pharmaceutica (1991), 59(2), 123-33
CODEN: SCPHA4; ISSN: 0036-8709
DT Journal
LA German
OS CASREACT 115:279900

L14 ANSWER 42 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:228552 CAPLUS Full-text
DN 114:228552
OREF 114:38533a,38536a
TI Preparation of (aminoalkyl)phenylacyl-derivatized drugs with improved solution stability and solubility
IN Bundgaard, Hans; Falch, Erik
PA Den.
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 9008128 | A1 | 19900726 | WO 1990-DK20 | 19900119 |
| | W: AU, CA, FI, JP, KR, NO, US | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE | | | | |
| | CA 2045591 | A1 | 19900721 | CA 1990-2045591 | 19900119 |
| | AU 9050323 | A | 19900813 | AU 1990-50323 | 19900119 |
| | EP 454773 | A1 | 19911106 | EP 1990-902624 | 19900119 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE | | | | |
| | JP 04502918 | T | 19920528 | JP 1990-502553 | 19900119 |
| PRAI | DK 1989-240 | A | 19890120 | | |
| | WO 1990-DK20 | A | 19900119 | | |

OS MARPAT 114:228552

L14 ANSWER 43 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1991:17446 CAPLUS Full-text
DN 114:17446
OREF 114:2973a,2976a
TI Sodium channel binding and anticonvulsant activities of hydantoins containing conformationally constrained 5-phenyl substituents
AU Brouillette, Wayne J.; Brown, George B.; DeLorey, Timothy M.; Liang, Gang
CS Dep. Chem., Univ. Alabama, Birmingham, AL, 35294, USA

SO Journal of Pharmaceutical Sciences (1990), 79(10), 871-4
CODEN: JPMSAE; ISSN: 0022-3549
DT Journal
LA English

L14 ANSWER 44 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1990:154859 CAPLUS Full-text
DN 112:154859
OREF 112:26083a,26086a
TI Immobilization of haptens for measurement by immunoassay using surface plasmon resonance (SPR)
IN Corrie, John; Fairclough, Lynne; Charles, Stephen Alexander; Finlan, Martin Francis
PA Amersham International PLC, UK
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 8908260 | A1 | 19890908 | WO 1989-GB156 | 19890223 |
| | W: JP, SU | | | | |
| | RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE | | | | |
| | EP 378594 | A1 | 19900725 | EP 1989-904150 | 19890223 |
| | R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE | | | | |
| | JP 03503679 | T | 19910815 | JP 1989-503761 | 19890223 |
| | AU 8930774 | A | 19890831 | AU 1989-30774 | 19890227 |
| | AU 616481 | B2 | 19911031 | | |
| PRAI | GB 1988-4669 | A | 19880227 | | |
| | WO 1989-GB156 | W | 19890223 | | |

L14 ANSWER 45 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1990:478239 CAPLUS Full-text
DN 113:78239
OREF 113:13239a,13242a
TI The reactions of carbonic diamides α-hydroxy ketones and α-diketones. Part 1. The reaction of cyanoguanidine with benzil
AU Schramm, H. W.
CS Inst. Pharm. Chem., Karl-Franzens-Univ., Graz, A-8010, Austria
SO Scientia Pharmaceutica (1989), 57(4), 385-90
CODEN: SCPHA4; ISSN: 0036-8709
DT Journal
LA German

L14 ANSWER 46 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1989:632664 CAPLUS Full-text
DN 111:232664
OREF 111:38649a,38652a
TI The stereochemical course of the Biltz reaction
AU Mergen, F.; Poupaert, J. H.; De Keyser, J. L.; Dumont, P.
CS Med. Fak. Kathol., Univ. Lowen, Brussels, 1200, Belg.
SO Pharmazie (1989), 44(2), 110-12
CODEN: PHARAT; ISSN: 0031-7144
DT Journal
LA German
OS CASREACT 111:232664

L14 ANSWER 47 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1989:484010 CAPLUS Full-text

DN 111:84010
OREF 111:14037a,14040a
TI Low-melting phenytoin prodrugs: in vitro and in vivo correlations
AU Martodihardjo, Suwaldi
CS Univ. Kansas, Lawrence, KS, USA
SO (1988) 248 pp. Avail.: Univ. Microfilms Int., Order No. DA8903134
From: Diss. Abstr. Int. B 1989, 49(11), 4831
DT Dissertation
LA English

L14 ANSWER 48 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1989:165383 CAPLUS Full-text
DN 110:165383
OREF 110:27197a,27200a
TI Enzyme-enhanced electrochemical immunoassay for phenytoin
AU Umana, Mirtha; Waller, Jess; Wani, Mansukh; Whisnant, Carol; Cook, Edgar
CS Res. Triangle Inst., Research Triangle Park, NC, 27709-2194, USA
SO Journal of Research of the National Institute of Standards and Technology (1988), 93(6), 659-61
CODEN: JRITEF; ISSN: 1044-677X
DT Journal
LA English

L14 ANSWER 49 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1988:37727 CAPLUS Full-text
DN 108:37727
OREF 108:6311a,6314a
TI Spirohydantoin aldose reductase inhibitors
AU Sarges, Reinhard; Schnur, Rodney C.; Belletire, John L.; Peterson, Michael J.
CS Pfizer Cent. Res., Groton, CT, 06340, USA
SO Journal of Medicinal Chemistry (1988), 31(1), 230-43
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
OS CASREACT 108:37727

L14 ANSWER 50 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1987:101551 CAPLUS Full-text
DN 106:101551
OREF 106:16619a,16622a
TI Reaction of bis-α-diketones with urea in alkaline media
AU Savchenko, T. I.; Yatsimirskii, A. K.
CS Politekh. Inst., Tomsk, USSR
SO Zhurnal Organicheskoi Khimii (1986), 22(6), 1241-6
CODEN: ZORKAE; ISSN: 0514-7492
DT Journal
LA Russian
OS CASREACT 106:101551

L14 ANSWER 51 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1986:65419 CAPLUS Full-text
DN 104:65419
OREF 104:10413a,10416a
TI Ligand determination utilizing an immunoassay monitorable by biotin-containing enzymes, and compositions therefor
IN Bacquet, Cathy A.; Twumasi, Daniel Y.
PA Kallestad Laboratories, Inc., USA
SO U.S., 9 pp.
CODEN: USXXAM

DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI US 4550075 | A | 19851029 | US 1983-506889 | 19830622 |
| PRAI US 1983-506889 | | 19830622 | | |

L14 ANSWER 52 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1986:435320 CAPLUS Full-text
DN 105:35320
OREF 105:5693a,5696a
TI Pharmacological properties of 3-aminoalkyl and amide derivatives of 5,5-diphenylhydantoin
AU Kiec-Kononowicz, Katarzyna; Stypula, Ewa; Krupinska, Jolanta; Cebo, Barbara
CS Dep. Pharm. Chem., Med. Acad., Krakow, 31-065, Pol.
SO Polish Journal of Pharmacology and Pharmacy (1985), 37(5), 693-9
CODEN: PJPPAA; ISSN: 0301-0244
DT Journal
LA English

L14 ANSWER 53 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1985:32235 CAPLUS Full-text
DN 102:32235
OREF 102:5117a,5120a
TI Pharmaceutical complexes with cyclodextrin and glycol diglycidyl ether polymers
PA Mitsubishi Petrochemical Co., Ltd., Japan; Mitsubishi Yuka Pharmaceutical Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI JP 59164728 | A | 19840917 | JP 1983-38473 | 19830309 |
| PRAI JP 1983-38473 | | 19830309 | | |

L14 ANSWER 54 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1984:490608 CAPLUS Full-text
DN 101:90608
OREF 101:13879a,13882a
TI Urea derivatives and their use
IN Stransky, Werner; Schroeder, Ludwig; Mengel, Rudolf; Lust, Sigmund; Linden, Gerbert
PA Celamerck G.m.b.H. und Co. K.-G., Fed. Rep. Ger.
SO Ger. Offen., 16 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI DE 3236626 | A1 | 19840405 | DE 1982-3236626 | 19821004 |
| PRAI DE 1982-3236626 | | 19821004 | | |
| OS CASREACT 101:90608; MARPAT 101:90608 | | | | |

L14 ANSWER 55 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1984:616279 CAPLUS Full-text
DN 101:216279
OREF 101:32715a,32718a
TI Phenytoin prodrugs. IV: Hydrolysis of various 3-(hydroxymethyl)phenytoin esters
AU Varia, S. A.; Schuller, S.; Stella, V. J.
CS Dep. Pharm. Chem., Univ. Kansas, Lawrence, KS, 66045, USA
SO Journal of Pharmaceutical Sciences (1984), 73(8), 1074-80
CODEN: JPMSAE; ISSN: 0022-3549
DT Journal
LA English

L14 ANSWER 56 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1984:630412 CAPLUS Full-text
DN 101:230412
OREF 101:34989a,34992a
TI Phenytoin prodrugs. III: Water-soluble prodrugs for oral and/or parenteral use
AU Varia, S. A.; Schuller, S.; Sloan, K. B.; Stella, V. J.
CS Sch. Pharm., Univ. Kansas, Lawrence, KS, 66045, USA
SO Journal of Pharmaceutical Sciences (1984), 73(8), 1068-73
CODEN: JPMSAE; ISSN: 0022-3549
DT Journal
LA English

L14 ANSWER 57 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1985:471246 CAPLUS Full-text
DN 103:71246
OREF 103:11465a,11468a
TI Reactions of 5,5-diphenylhydantoin and its 3-N-carboxylates with hydrazine and 2-morpholinoethylamine
AU Kiec-Kononowicz, Katarzyna; Zejc, Alfred; Byrtus, Hanna
CS Dep. Pharm. Chem., Sch. Med., Krakow, 31065, Pol.
SO Polish Journal of Chemistry (1984), 58(4-5-6), 585-91
CODEN: PJCHDQ; ISSN: 0137-5083
DT Journal
LA English
OS CASREACT 103:71246

L14 ANSWER 58 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1985:78766 CAPLUS Full-text
DN 102:78766
OREF 102:12349a,12352a
TI Phase-transfer catalysis by poly(ethyleneglycol) 600 in the Biltz synthesis of phenytoin.
AU Poupaert, Jacques H.; De Keyser, Jean Luc; Vandervorst, Daniel; Dumont, Pierre
CS Brussels, B-1200, Belg.
SO Bulletin des Societes Chimiques Belges (1984), 93(6), 493-5
CODEN: BSCBAG; ISSN: 0037-9646
DT Journal
LA English
OS CASREACT 102:78766

L14 ANSWER 59 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1983:609278 CAPLUS Full-text
DN 99:209278
OREF 99:32141a,32144a
TI Assay method
IN Allen, Gerald John

PA Amersham International PLC, UK
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | EP 92344 | A1 | 19831026 | EP 1983-301943 | 19830406 |
| | R: DE, FR, GB | | | | |
| | JP 58190762 | A | 19831107 | JP 1983-66281 | 19830414 |
| PRAI | GB 1982-10928 | A | 19820415 | | |

L14 ANSWER 60 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1983:435662 CAPLUS Full-text
DN 99:35662
OREF 99:5573a,5576a
TI Fluoroimmunoassay system
IN Hendrix, John L.
PA Bio-Diagnostics, Inc., USA
SO Eur. Pat. Appl., 60 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | EP 71991 | A2 | 19830216 | EP 1982-107102 | 19820806 |
| | EP 71991 | A3 | 19830907 | | |
| | EP 71991 | B1 | 19860514 | | |
| | R: AT, DE, FR, GB, IT | | | | |
| | CA 1186621 | A1 | 19850507 | CA 1982-408817 | 19820805 |
| | AT 19828 | T | 19860515 | AT 1982-107102 | 19820806 |
| | AU 8287024 | A | 19830512 | AU 1982-87024 | 19820810 |
| | AU 565418 | B2 | 19870917 | | |
| | JP 58086459 | A | 19830524 | JP 1982-139112 | 19820810 |
| | JP 03079665 | B | 19911219 | | |
| | AU 8774987 | A | 19871022 | AU 1987-74987 | 19870630 |
| PRAI | US 1981-291793 | A | 19810810 | | |
| | EP 1982-107102 | A | 19820806 | | |

L14 ANSWER 61 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1984:22537 CAPLUS Full-text
DN 100:22537
OREF 100:3541a,3544a
TI Application of spin labeling to drug assays. III. 2,2,5,5-tetramethylpyrroline-15N,d13-1-oxyl-3-carboxylic acid coupled to phenytoin
AU Yost, Yul; Polnaszek, Carl F.; Holtzman, Jordan L.
CS Res. Serv., VA Med. Cent., Minneapolis, MN, 55417, USA
SO Journal of Labelled Compounds and Radiopharmaceuticals (1983), 20(6), 707-17
CODEN: JLCRD4; ISSN: 0362-4803
DT Journal
LA English

L14 ANSWER 62 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1984:114425 CAPLUS Full-text
DN 100:114425
OREF 100:17249a,17252a
TI Radioimmunoassay of diphenylhydantoin

AU Wu, Jianzhong; Jia, Liguo; Zhu, Yanzhen
CS Beijing Inst. Neurosurg., Beijing, Peop. Rep. China
SO Zhonghua Yixue Jianyan Zazhi (1983), 6(2), 65-7
CODEN: CHCCDO; ISSN: 0253-973X
DT Journal
LA Chinese

L14 ANSWER 63 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1983:122427 CAPLUS Full-text
DN 98:122427
OREF 98:18605a,18608a
TI Stabilization of glucose oxidase apoenzyme
IN Rupchock, Patricia A.; Tyhach, Richard J.
PA Miles Laboratories, Inc. , USA
SO U.S., 17 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI US 4366243 | A | 19821228 | US 1981-255310 | 19810417 |
| PRAI US 1981-255310 | | 19810417 | | |

L14 ANSWER 64 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1983:68454 CAPLUS Full-text
DN 98:68454
OREF 98:10421a,10424a
TI Homogeneous specific binding assay test device having a copolymer enhancing substance
IN Tabb, David L.; Tyhach, Richard J.
PA Miles Laboratories, Inc. , USA
SO U.S., 15 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI US 4362697 | A | 19821207 | US 1981-255759 | 19810420 |
| PRAI US 1981-255759 | | 19810420 | | |
| OS MARPAT 98:68454 | | | | |

L14 ANSWER 65 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1982:466393 CAPLUS Full-text
DN 97:66393
OREF 97:10983a,10986a
TI Fluorescent reagent and method for determining immunofluorescence.
IN Tsay, Yuh Geng; Chen, Janet H.; Palmer, Richard J.
PA International Diagnostic Technology, Inc., USA
SO Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI EP 47459 | A2 | 19820317 | EP 1981-106776 | 19810829 |
| EP 47459 | A3 | 19820324 | | |
| EP 47459 | B1 | 19841121 | | |

R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE

| | | | | | |
|---|---|---|---|---|---|
| | AT 10399 | T | 19841215 | AT 1981-106776 | 19810829 |
| | CA 1172560 | A1 | 19840814 | CA 1981-385220 | 19810904 |
| | DK 8103946 | A | 19820309 | DK 1981-3946 | 19810907 |
| | FI 8102771 | A | 19820309 | FI 1981-2771 | 19810907 |
| | FI 72394 | B | 19870130 | | |
| | FI 72394 | C | 19870511 | | |
| | NO 8103029 | A | 19820309 | NO 1981-3029 | 19810907 |
| | NO 155516 | B | 19861229 | | |
| | JP 57077963 | A | 19820515 | JP 1981-140808 | 19810907 |
| PRAI | US 1980-185235 | A | 19800908 | | |
| | EP 1981-106776 | A | 19810829 | | |

L14 ANSWER 66 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1983:422468 CAPLUS Full-text
DN 99:22468
OREF 99:3637a,3640a
TI 3-(γ-Amino-β-hydroxypropyl)-5,5-diphenylhydantoin derivatives
IN Zejc, Alfred; Kiec-Kononwicz, Katarzyna
PA Polska Akademia Nauk, Instytut Farmakologii, Pol.
SO Pol., 4 pp.
CODEN: POXXA7
DT Patent
LA Polish
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | PL 114751 | B1 | 19810228 | PL 1977-202530 | 19771130 |
| PRAI | PL 1977-202530 | A | 19771130 | | |

OS CASREACT 99:22468

L14 ANSWER 67 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1983:78068 CAPLUS Full-text
DN 98:78068
OREF 98:11843a,11846a
TI Intravenous solution of sodium diphenyl hydantoin: preparation and stability control
AU Ibanez, S.; Mendoza, Maria L.; Sanchez-Morcillo, J.
CS Serv. Farm., C.S. "Virgen de las Nieves", Granada, Spain
SO Revista de la Asociacion Espanola de Farmaceuticos de Hospitales (1982), 6(2), 133-7
CODEN: RAEHDT; ISSN: 0210-6329
DT Journal
LA Spanish

L14 ANSWER 68 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2
AN 1981:417983 CAPLUS Full-text
DN 95:17983
OREF 95:3021a,3024a
TI A nonmetabolized analog of phenytoin
AU Henderson, James D.; Dayton, Peter G.; Israili, Zafar H.; Mandell, Leon
CS Dep. Med., Emory Univ., Atlanta, GA, 30322, USA
SO Journal of Medicinal Chemistry (1981), 24(7), 843-7
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English

L14 ANSWER 69 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1982:104166 CAPLUS Full-text
DN 96:104166

OREF 96:17109a,17112a
TI The synthesis of some carbon-11-labeled antiepileptic drugs with potential utility as radiopharmaceuticals: hydantoins and barbiturates
AU Roeda, D.; Westera, G.
CS Dep. Org. Chem., Vrije Univ., Amsterdam, 1081 HV, Neth.
SO International Journal of Applied Radiation and Isotopes (1981), 32(11), 843-5
CODEN: IJARAY; ISSN: 0020-708X
DT Journal
LA English

L14 ANSWER 70 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1980:506758 CAPLUS Full-text
DN 93:106758
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CS Sch. Pharm., Univ. Cathol. Louvain, Louvain, Belg.
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AU Nelson, Wendel L.; Kwon, Young G.; Marshall, Gary L.; Hoover, James L.; Pfeffer, Gary T.
CS Sch. Pharm., Univ. Washington, Seattle, WA, USA
SO Journal of Pharmaceutical Sciences (1979), 68(1), 115-17
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L14 ANSWER 72 OF 83 CAPLUS COPYRIGHT 2008 ACS on STN
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AU Chiang, Hung-Cheh; Li, Shyh-Yuan; Shih, Hsi-Pin
CS Inst. Chem., Natl. Taiwan Normal Univ., Taipei, Taiwan
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IN Parsons, George H., Jr.; Eller, Thomas
PA Baxter Travenol Laboratories, Inc., USA
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FAN.CNT 1

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| PRAI | US 1976-673853 | A3 | 19760405 | | |

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CS Oesterr. Studienges. Atomenerg. G.m.b.H., Vienna, Austria
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AU Butler, Anthony R.; Leitch, Elizabeth
CS Dep. Chem., Univ. St. Andrews, St. Andrews, UK
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AU Domany, Gyorgy; Nyitrai, Jozsef; Zauer, Koroly; Lempert, Karoly; Bekassy, Sandor
CS Dep. Org. Chem., Tech. Univ., Budapest, Hung.
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IN Kolbeck, Winfried; Bayerlein, Friedrich
PA Diamalt A.-G.
SO U.S., 2 pp.
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| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PRAI US 1970-10317 | A | 19700210 | | |

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AU Zieloff, K.
CS Berlin-Weissensee, Fed. Rep. Ger.
SO Zentralblatt fuer Pharmazie, Pharmakotherapie und Laboratoriumsdiagnostik (1970), 109(11), 1179-82
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CS Univ. Buenos Aires, Buenos Aires, Argent.
SO Journal of Medicinal Chemistry (1968), 11(1), 176-8
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CS Univ. of Maryland Med. School, Baltimore, MD, USA
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